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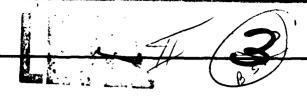
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## DAVID W. TAYLOR NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER



Bethesda, Md. 20084

AUTOMATED TECHNICAL LIBRARY
SYSTEM USERS MANUAL

by

Shevra L. Martin



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FINANCIAL MANAGEMENT DEPARTMENT

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December 1979

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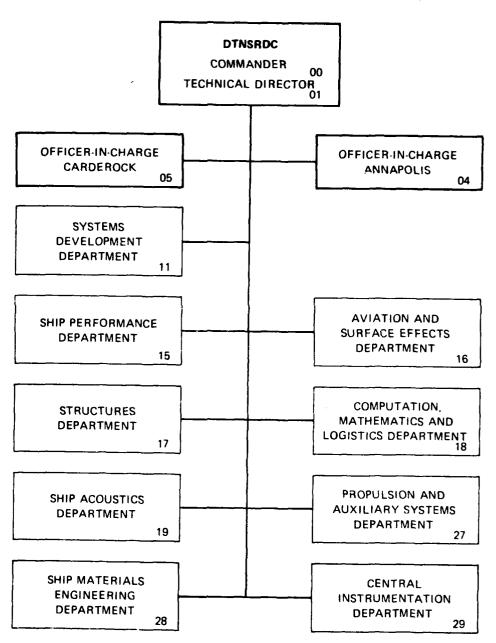
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#### **PREFACE**

The purpose of this manual is to acquaint users of the Library system with the scope and make-up of the Library data base, as well as techniques for retrieving information from the data base interactively. While "users" of the system are understood to be Library reference staff members, this manual may be used by Library clientele as well.

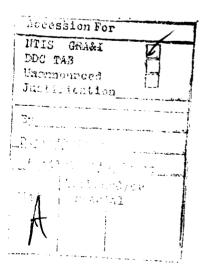
This manual contains all the information required for successful reference searching; however, you might want to supplement this manual with the Battelle-authored <u>User's Reference Manual</u>. A convenient wall chart entitled BASIS BASICS: UTILIZING THE LIBRARY SYSTEM is also available for approved TITLES users.

Any constructive comments about this manual, as well as requests for assistance in utilizing the Library system, should be directed to:

The Library Systems Analyst and
Data Base Administrator
Code 6080

David W. Taylor Naval Ship Research and
Development Center
Bethesda, Maryland 20084

Phone: (301) 227-1127



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#### Abstract

TITLES (Taylor Information Tie Line for Engineers and Scientists) automates several library functions, including cataloging, reference, circulation, interlibrary loan, shelf list control, and SDI. Output products include Union COM (computer-output-microfiche) catalogs for five library branches, overdue notices, bibliographies, a new accessions bulletin, and a Center reports bibliography. This on-line users guide describes the concepts of a hierarchical thesaurus, generic retrieval, index searching, free-text searching, formatting output displays, PROFILE, and other available on-line search techniques.

#### Administrative Information

This work was performed under overhead. The principal investigator is Shevra L. Martin, Financial Management Department, David W. Taylor Naval Ship Research and Development Center (DTNSRDC).

#### 1. Library System Overview

#### 1.1 Introduction

Why automate? This is a question asked by many people concerned with the Center's Library. The DTNSRDC Automated Library System is the result of a Systems Analysis, Economic Analysis, Feasibility Study, and User Survey in which the productivity, timeliness, and impact of existing methods and procedures were evaluated in light of the established goals of the Library. Many of the circumstances and problems that led the Library to conduct this operational review are common among technical libraries:

- The exponential rate of growth in the literature of science and technology
- The difficulty in hiring under personnel ceilings
- The drudgery of performing repetitive and rote tasks
- The new interdisciplinary approach to solving today's technical problems, which render traditional classification schemes obsolete
- Redundant data-gathering and storage activities resulting in large and cumbersome filing systems
- Lack of standardization in cataloging practices and indexing terminology
- Requests by individual project offices to organize their private document collections
- Lack of adequate subject access to Center employee-authored literature.

TITLES (Taylor Information Tie Line for Engineers and Scientists) performs a variety of tasks, functions, and activities, of which the most important are:

- Interactive search and retrieval in support of the reference function
- Circulation control
- Integration of the collections of five distinct library branches

- Inventory control
- Production of public catalogs on computer-output-microfiche
- Maintenance of interlibrary loans
- Bibliographic control over Center reports
- Selective dissemination of information
- New accessions announcements

This manual will deal in depth with only one aspect of the Library system: on-line information retrieval.

#### 1.2 Collections in the Data Base

The data base is broad in scope, encompassing the following:

- Library collections from the unclassified libraries at Carderock, Annapolis, and the Aviation and Surface Effects Department, and the classified libraries at Carderock and Annapolis
- The entire body of DTNSRDC-authored literature, including:
  - a. Formal and informal Center reports
  - b. pre-"Center" Carderock and Annapolis reports
  - c. informal reports including test & evaluation reports, technical memoranda, etc.
  - d. papers, articles, presentations, graphics, workshop proceedings
  - e. Contractor reports
  - f. proposals
  - g. planning documentation
  - h. plans and diagrams
- The Navy Energy R&D Office document collection
- Intelligence documentation
- NACA reports
- America/Britain/Canada document exchange reports
- COMTAC publications
- Submarine Control reports collection
- Seaplanes collection
- Patent Counsel collection

#### 1.3 Publication Types in the Data Base

A wide variety of publication types and formats are included:

- Technical reports
- Memoranda
- Books and monographs
- Translations

- Foreign language material
- Theses and dissertations
- Patents
- Conference proceedings and individual papers
- Periodical articles
- Drawings and plans
- Handbooks, dictionaries, reference works
- Microfiche and film
- Serials

Not included are many technical reports and periodical articles from other available data bases, such as NASA/RECON, DDC, and Lockheed Dialog.

#### 1.4 Data Base Files and Records

The Library system is comprised of Library data base files, BASIS\* data base management system files and utilities, and other special program files. The data base files consist of head files, index files, a thesaurus file, and a queue file of records in processing. Figure 1 shows the relationship between these files.

The HEAD FILE, or master file, is the file of records that contains all of the information about the Library collection. The HEAD FILE is made up of RECORDS, and the RECORDS are made up of FIELDS. There are two types of RECORDS in the HEAD FILE, cataloging records and circulation records (see Figure 2).

#### 1.4.1 Cataloging Records

A record containing bibliographic information is created for every document in the Library collection. One cataloging record is created for each title, irrespective of the number of copies owned. Every edition of a publication merits a separate record, as does each volume and part. Conference proceedings, as well as their individual relevant papers, are assigned separate cataloging records.

#### 1.4.2 Circulation Records

A circulation record is generated for every circulating Library publication. Once the publication is returned, however, the circulation record is deleted. If several copies of a title are charged out, a circulation record containing due date and copy information is made for every circulating copy. Circulation records are also made for interlibrary loans.

<sup>\*</sup>Battelle's Automated Search Information System of Battelle Columbus Labs.

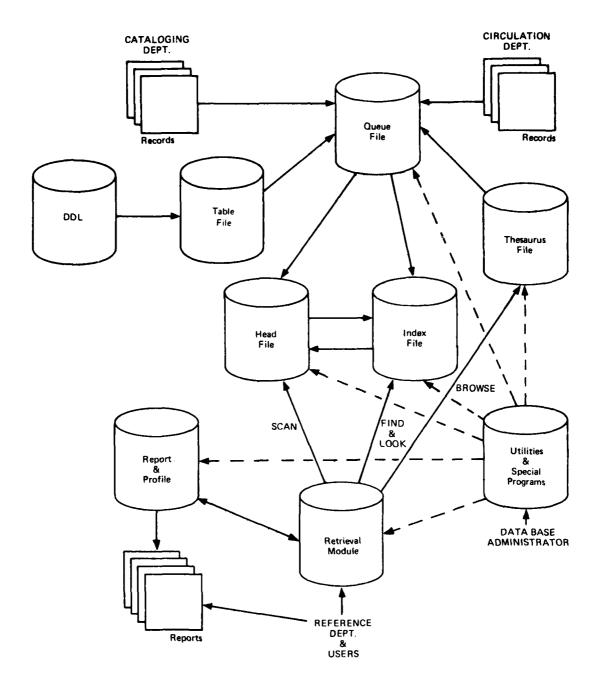


Figure 1 - Relationship between System Files

#### Cataloging Record

#### ITEM 1

RECORD ID 365 VM 5.A 28G CALL NUMBER DATA BASE RECORD ENTRY DATE 790104 CATALOGER NUMBER CORPORATE SOURCE NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER PERSONAL AUTHOR MAIN ENTRY: ELLSWORTH W M HYDROFOIL DEVELOPMENT-ISSUES AND ANSWERS. IN AIAA/SNAME TITLE ADVANCED MARINE VEHICLES CONFERENCE, SAN DIEGO, 1974 PERSONAL AUTHOR ELLSWORTH W M PUBLICATION DATE 19740200 **PAGINATION** 12 SERIES NUMBERS AIAA PAPER 74-306 SUPPLEMENTARY NOTE FOR PRIMARY DOCUMENT, SEE VM 5.A 28; SPONSORED BY AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS AND BY SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS. SHELF LIST CODE AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS PUBLISHER LIBRARY CARDEROCK C/REF CARDEROCK COPIES LIBRARY ANNAPOLIS AN ANNAPOLIS COPIES FIELD/GROUP 1320;1321;1322;1323 MAJOR DESCRIPTORS HYDROFOIL CRAFT-STATE OF THE ART; NAVAL RESEARCH SUBJECT DESCRIPTORS: SHIP AUXILIARY EQUIPMENT; NAVAL VESSELS; HIGH STRENGTH ALLOYS; STAINLESS STEEL; PROPULSION SYSTEMS (MARINE); HYDROFOILS; STRUTS; CONTROL; SHIP STRUCTURAL COMPONENTS IDENTIFIERS HUDAP(HYDRODOIL UNIVERSAL DIGITAL AUTOPILOT); SH: AGEH 1; SH:PGH 1;SH:PGH 2;SH:FHE 400(CA);SH:PCH 1;SH:PHM;AL:HY-130;AL:17-4PH; SH: PT150(SW); SH: HS DENISON

#### Circulation Record

CENTER DOCUMENT TYPE: PA

#### ITEM 1

RECORD ID	400312
DATA BASE	В
CIRCULATION CALL NR	U021421C1
CATALOG RECORD ID	340
LIBRARY	С
BORROWER'S NAME	FOLB R
DUE DATE	780315
WAIT LIST	HAGEN G R 1560

Figure 2 - A Typical Cataloging and Circulation Record

#### 2. Getting ONLINE

The steps involved in utilizing the Library system on-line are:

- (i) Establishing computer communications
- (ii) Logging on to the Center's computer system
- (iii) Logging on to the Library system
- (iv) Conducting your search session
- (v) Terminating your search session
- (vi) Logging out of the computer system
- (vii) Breaking communications

This section will cover the procedures for all but one of these steps, (iv) conducting your search session, which will be covered in Sections 3 to 6.

#### 2.1 Logging ON

The Library system is presently operational on the Center's CDC 6000 series computer system.

Those who wish to use the Library system must obtain a Computer Center USER NAME and ACCESS NUMBER, as well as a BASIS USER ID, from the Library Data Base Administrator.

STEP 1: Dial one of the following phone numbers from any remote terminal:

	300 BAUD	1200 BAUD
Carderock	227-3000	227-3400
Annapolis	(301) 267-2011	(301) 267-2025

STEP 2: Log on to the computer system:

LOGIN, User Name

or:

LOGIN, User Name, SUP (to "suppress" system bulletin)

STEP 3: Enter your ACCESS NUMBER.

STEP 4: Enter the following after each COMMAND:

COMMAND - ETL,500

COMMAND - SCREEN,80

COMMAND - FETCH, BASIS, BASIS

COMMAND - BASIS, DB=CRMD, ID=your BASIS ID

You are now ready to begin your search session.

#### 2.2 Logging OUT

When finished with your BASIS search session, enter:

**END** 

or:

QUIT

After exiting from BASIS, you must LOGOUT from the computer system by simply entering:

COMMAND-LOGOUT

Now you may disconnect your telephone and switch off your terminal. Figure 3 provides an actual sample LOGIN and LOGOUT.

#### 3. Retrieving Information

#### 3.1 Thesaurus

The key to understanding information retrieval in the Library system is understanding the concept of a THESAURUS. In its simplest form, a thesaurus is a list of terms which may be used to describe a particular spect of a publication. A thesaurus is important to an information system simply because people — authors, indexers, library clientele, and search analysts — use different terms to denote the same concept. For example, what an author might describe as "atmospheric pollution," a library user might ask for as "air pollution." What a Library cataloger indexes under "residual fuels," a Navy man might look up under "bunker oils." The thesaurus tells those who are indexing documents and those who are searching for information the proper terms to use.

The Library has created and maintains both on-line and in printed form a two-part Thesaurus for Subjects and Corporate Sources. Both parts are extensive lists of thousands of terms that may be used by Library catalogers in indexing documents for the data base.

To create the corporate source thesaurus, the Library acquired the Defense Documentation Center (DDC) Source Hierarchy List and added records for professional societies, academia, DTNSRDC contractors, and other required corporate authors, as well as a detailed breakdown of the Center's organizational structure.

(User entry is underlined.)

NSRDC 6600 INTERCOM V 4.6 DATE 09/27/79 TIME 10.33.56. LOGIN, CRSMARTIN, SUP

IIIIIIIII ENTER ACCESS NUMBER-COMMAND- ETL,500

COMMAND- SCREEN, 80

COMMAND- FETCH, BASIS, BASIS

COMMAND- BASIS, ID=CRAD, DB=CRMD

BASIS 4.0 R15 790420

WELCOME TO THE DTNSRDC LIBRARY DATA BASE THE LAST UPDATE WAS 790926 AT 124820 ENTER YOUR REQUEST 1/END

DTNSRDC LIBRARY DATA BASE USAGE TERMINATED

GOODBYE COMMAND- LOGOUT

CPA 2.507 SEC
SS 4.143 SEC
EST. SYSTEM COST \$ .58
EST. CONNECT COST \$ 0.50
CONNECT TIME 0 HRS. 3 MIN.
09/27/79 LOGGED OUT AT 10.37.04.

Figure 3 – Sample LOGIN and LOGOUT Procedure

To create the subject thesaurus, the Library acquired DRIT\* on tape, removed all cross-references, modified and expanded subject hierarchies in the disciplines listed below, and then added selected new cross-references, related terms, and scope notes.

#### Areas Modified in DRIT

- Ship design
- Propeller design
- Ship's types
- Fluid dynamics
- Energy conservation
- Pollution abatement
- Ships auxiliary systems

- Acoustics
- Materials
- Structures
- Aerodynamics
- Fuels
- Marine propulsion plants

The Library thesaurus is a special kind of thesaurus because it not only stores permitted terms, but also the terms' relationships to other terms. Section 3.1.1. describes these relationships.

While the thesaurus may be "browsed" on-line or consulted in printed form, it is not necessary to address the thesaurus directly while searching. Several "synonym-switching" relationships from the thesaurus are automatically duplicated in the index. These switching relationships generate messages during a retrieval session that refer users from nonused terms to similar but permitted terms.

"Generic" or "hierarchical" retrieval is also achieved without having to address the thesaurus. When a record is input, the system will automatically index that record against every term defined in the thesaurus as a BROADER TERM (BT) to the assigned term. For example, if a Library indexer assigns the single corporate author "DTNSRDC. Computation and Mathematics Dept," the system will automatically "up-post" the document to appear also under the index entries for "DTNSRDC. Carderock," "Naval Material Command," and "Navy Dept." Likewise, when a user searches on "Fluid Flow," he automatically retrieves records for documents that had been indexed under many specific types of flow.

To see itemized lists of broader and narrower terms, as well as to retrieve lists of related terms, accepted abbreviations, and notes on a term's usage, you may consult the thesaurus on-line directly from the retrieval module by entering the term "BROWSE." To return to the retrieval module, enter "BASIS."

<sup>\*</sup>DDC Retrieval and Indexing Terminology.

#### Example

#### 1/BROWSE

ENTER TERM

```
/MARINE PROPULSION PLANTS
MARINE PROPULSION PLANTS
       USE MARINE PROPULSION FOR GENERAL DISCUSSIONS.
       FOR SPECIFIC SYSTEMS OR MACHINERY, CONSULT
  SN
       MARINE PROPULSION PLANTS HIERARCHY.
  SN
       MARINE PROPULSION
  BT
       PROPULSION SYSTEMS
  BT
       PROPULSION MACHINERY (MARINE)
  UF
       PROPULSION PLANTS (MARINE)
  UF
       SHIPS SYSTEMS
  UF
       SHIP PROPULSION MACHINERY
  UF
  NT * MARINE BOILERS
  NT * MARINE NUCLEAR PROPULSION PLANTS
  NT * PROPULSION AUXILIARIES (MARINE)
  NT * PROPULSION UNITS (MARINE)
  NT * PROPULSOR SYSTEMS (MARINE)
  NT * TRANSMISSION SYSTEMS (MARINE)
  RT
       EOUIPMENT
       SHIPBOARD PIPING SYSTEMS
  RT
```

SHIP ELECTRIC POWER PLANTS

ENTER TERM
/NAVAL ORDNANCE LAB

NAVAL ORDNANCE LAB
SN FOR LOWER ORGANIZATIONAL LEVELS SEE NOL(LOWER ORG
SN LEVEL) EX-NOL. RESEARCH DIV
AB NOL

ENTER TERM /BASIS

RT

#### 3.1.1 Library Thesaurus Relationships

Symbol Meaning USE Use

Explanation

When a term is followed by an instruction to "USE" another term, it means that the first term ("lead" term) is not used in indexing.

USE references indicate either: (1) two terms are synonymous, or (2) only one form of a multiword term is used. For example:

#### 1/PRIME MOVERS

USE DE=PROPULSION UNITS (MARINE)

16 ITEMS SAVED AS SET 1 2/BUNKER OILS

USE DE=RESIDUAL FUELS
7 ITEMS SAVED AS SET 2
3/HIGH EFFICIENCY

USE DE=EFFICIENCY 50 ITEMS SAVED AS SET 3

USE AND

Combine all given terms

The system will automatically retrieve and combine appropriate terms. For example:

#### 4/FUEL STABILITY

175 USE DE=FUELS
71 AND DE=STABILITY
5 ITEMS SAVED AS SET 4

#### 5/HIGH TEMPERATURE GAS TURBINES

74 USE DE=GAS TURBINES
33 AND DE=HIGH TEMPERATURE
7 ITEMS SAVED AS SET 5

Symbol USE OR

Meaning Salast and

Select one or more of the following terms Explanation

For example:

6/ENERGY USAGE

DO YOU MEAN ...

.ITEMS.

TERM

A 80 DE=ENERGY CONSUMPTION B 23 DE=ENERGY DEMAND

PICK LETTERS TO COMBINE

NT

Narrower Term

This identifies a generic or hierarchical relationship between terms which is utilized by the system. All "NT's" are members of the same family as the lead term, but at a lower level. Whenever you enter a search term that has "NT's," you automatically retrieve not only those documents about the selected term, but also documents about any of the terms defined as narrower terms to the selected term.

User entry: 1/fuel storage system
Response includes records on storage of all
types of fuels

## ENTER TERM /FUEL STORAGE

FUEL STORAGE

BT STORAGE

NT COAL STORAGE

NT \* GAS STORAGE

NT OIL STORAGE

NT PETROLEUM PRODUCTS STORAGE

RT ENERGY STORAGE

RT FUEL TANKS

RT UNDERGROUND STORAGE

BT

Broader Term

This is the reciprocal of the NT relationship. The lead term is a member, at a lower level, of each of the families of broader terms:

## ENTER TERM /GUIDED MISSILE FRIGATES

GUIDED MISSILE FRIGATES

BT FRIGATES

BT GUIDED MISSILE SHIPS

BT NAVAL VESSELS

BT SHIPS

Because the narrower/broader term relationships are "looked up" by the system when new records are input, documents should always be indexed and searched for at the most specific level. The system will automatically "up-post" a record to every term defined as "broader" to the selected term. For example, a report assigned the descriptor "synthetic petroleum" will also appear under its broader terms "synthetic fuels" and "fuels."

RT

Related Term

Related terms suggest other approaches that might be taken in conducting a search. For example:

## ENTER TERM /MARINE BOILERS

#### MARINE BOILERS

BT BOILERS

BT MARINE PROPULSION PLANTS

BT MARINE PROPULSION

BT PROPULSION SYSTEMS

UP NAVAL BOILERS

UF SHIPS BOILERS

UP SHIP BOILERS

NT FORCED CIRCULATION BOILERS

Symbol	Meaning	Explanation
		NT ONCE THROUGH BOILERS NT REHEAT BOILERS NT SUPERCHARGED BOILERS NT TWO DRUM BOILERS NT WASTE HEAT BOILERS RT AIR HEATERS RT BOILER CASINGS RT BOILER CONTROLS RT BOILER EFFICIENCY RT ECONOMIZERS RT FURNACES RT OIL BURNERS RT PROPULSION UNITS (MARINE) RT SAFETY VALVES RT SUPERHEATERS
AF	Abbreviation for	User may enter an acronym or initialism as a shortcut. For example:
		ENTER TERM /NOL
		NOL AF NAVAL ORDNANCE LAB

AF SHIP SERVICE TURBOGENERATORS

ENTER TERM /COM

ENTER TERM /SSTG

COM

AF COMPUTER OUTPUT MICROFORM

Symbol	Meaning		Explanation
SN	Scope Note	A sc	ope note tells a user how a term was used.
		For	example:
		ENTER !	rerm
		/M	ARINE DIESEL PUELS
		MARINE	DIESEL FUELS
		SN	FOR MARINE DIESEL FUEL
		SN	ACCORDING TO MILITARY
		SN	SPECIFICATIONS FOR NAVY
		SN	USE, USE DIESEL FUEL MARINE.
		ВТ	DIESEL FUELS
		ВT	ENERGY SOURCES
		BT	FOSSIL FUELS
		ВT	PUELS
		BT	FUEL OILS
		ВT	MATERIALS
		BT	OILS
		B.TT	ORGANIC MATERIALS

#### 3.2 Index

On-line retrieval in the Library system is performed either through searching the on-line index or through a "free-text" search of a document set, or by a combination of both methods.

BT

PETROLEUM PRODUCTS

The index is an alphabetical list of key words that is created and updated with each data base update. Only certain data elements that are frequently requested in a reference search are pulled out and added to the index (see Figure 4). To search on other common data elements such as title, author, and report series number, consult the set of printed COM catalogs maintained by the Library (or free-text search nonindexed fields).

Figure 4 – Indexed Fields

	Search	
Field No.	Mnemonic	Name
1	ID	Record ID
4	RED	Record entry date
7	CS	Corporate source
13	PD	Publication date
18	SL	Shelf list code
22	LC	Carderock ownership

Figure 4 - Indexed Fields (continued)

	Search	
Field No.	Mnemonic	Name
24	LAN	Annapolis ownership
28	FG	Field/group (broad subject area)
29	DE (for Retrieval)	Major descriptors
	MDE (for SORT and DISPLAY)	
30	DE	Specific descriptors
31	DE (for Retrieval)	Identifiers (open-ended terms)
	IDT (for SORT and DISPLAY)	
32	TYP	Center document type
33	WU	Work unit number
36	RD	Reclassification date
46	CCN	Circulation call number
48	CRS	Corresponding cataloging record number for circulation records
49	LIB	Circulating library
51	BR	Borrower's name and code
53	DD	Due date
55	ILL	Interlibrary loan
61	LS	Lost

#### 3.2.1 Document Sets

In order to conduct a literature search, one generally creates "document sets" and then combines these sets using Boolean expressions. To create a document set through an index search, enter the desired index term preceded by its field mnemonic and an "equal" sign:

Field Mnemonic = Value

Example

8/BR=COHEN S L

64 ITEMS SAVED AS SET 8 9/FG=9001

328 ITEMS SAVED AS SET 9

It is not necessary to precede subject queries (subjects include major descriptors, specific descriptors, and identifiers) with a field mnemonic. You may simply enter the field value.

#### Example

#### 10/FLUID FLOW

## 115 ITEMS SAVED AS SET 10 11/ENGINE EXHAUST

#### 2 ITEMS SAVED AS SET 11

In order to provide more efficient retrieval, certain fields are indexed according to predefined numeric ranges. Ranged fields include record ID (ID), Record Entry Date (RED), Publication Date (PD), Reclassification Date (RD), and Due Date (DD). Ranged fields may be searched by using the following relational operators:

EQ, IS,=	– EQUAL
GT	<ul><li>Greater Than</li></ul>
LT	- Less Than
GE	<ul> <li>Greater Than or Equal to</li> </ul>
LE	<ul> <li>Less Than or Equal to</li> </ul>
BT,/	- Between, endpoints included
BX	<ul> <li>Between, endpoints excluded</li> </ul>

To search a ranged field, enter the field value preceded by its search mnemonic and a relational operator:

Field Mnemonic Relational Operator Field Value Example

#### 12/PD GE 19790000

213 ITEMS SAVED AS SET 12 13/ID 1/399999

1739 ITEMS SAVED AS SET 13 14/DD LT 790815 111 ITEMS SAVED AS SET 14

After creating document sets by searching on desired parameters, sets may be combined using BOOLEAN expressions:

Expression	Abbreviation	Interpretation  Both one and the other	
AND	A		
OR	0	One or the other or both	
AND NOT	AN	One and not the other	

To combine sets, enclose all Boolean statements, including embedded statements, in parentheses:

(document set no. Boolean Expression document set no.)

#### Example

1/SHIPS
279 ITEMS SAVED AS SET 1
2/CS=NAVY DEPT

341 ITEMS SAVED AS SET 2 3/CS=COAST GUARD

8 ITEMS SAVED AS SET 3 4/PD GE 19770000

1016 ITEMS SAVED AS SET 4 5/(1 AND (2 OR 3) AND 4)

85 ITEMS SAVED AS SET 5

The resulting set from the above search consists of titles on ships published by either the Navy Dept. or Coast Guard during or later than 1977.

#### 3.2.2 FIND Command

The FIND command allows a searcher to "stack" multiple commands on a single line. Example

- 6/FIND 3 (retrieves document set 3)
- \* 8 6/ 3 7/FIND NAVAL VESSELS AND PD GT 19760000
- \* 164 7/ NAVAL VESSELS
- \* 1094 8/ PD GT 19760000
- \* 115 9/ NAVAL VESSELS AND PD GT 19760000

To combine more than one Boolean expression in a FIND statement, use parentheses to avoid confusion.

#### Example

10/FIND(FG=1315 AND (FG=1320 OR SHIPS) AND PD GE 19720000)

- \* 305 10/ FG=1315
- \* 122 11/ FG=1320
- \* 279 12/ SHIPS
- \* 1526 13/ PD GE 19720000

If a lengthy FIND statement exceeds a terminal line, use + followed by a carriage return and continue on the next line.

#### Example

(user input underlined)

#### 16/FIND CS=ENERGY DEPT\* AND +

#### FIND...FG=9001

- \* 65 16/ CS=ENERGY DEPT ( 4 TERMS COMBINED)
- \* 328 17/ FG=9001
- \* 48 18/ CS=ENERGY DEPT\* AND FG=9001

Sometimes you are only interested in seeing the final results of a FIND statement without the step-by-step interim results. If this is the case, append the following to your FIND statement:

**END NOLIST** 

Example

19/FIND CS=ENERGY DEPT\* AND FG=9001 END NOLIST

\* 48 21/ CS=ENERGY DEPT\* AND FG=9001 END NOLIST

#### 3.2.3 LOOK Command

Many times we do not know the proper form for entering a search term (field value). In a card catalog, it is possible to "thumb" through the cards at the approximate alphabetic location of the desired term. In the Library system it is not required for a searcher to know the precise format and spelling of a desired term. Remember that the thesaurus provides the index with a "synonym-switching" capability which directs you from an incorrect term to the preferred term with a message to USE, USE AND, or USE OR,

Occasionally, however, the system does not switch a user to a correct term. Example

#### 22/SWATH

### NO SUCH TERM. ENTER TERM\* FOR ADJACENT TERMS. 0 ITEMS SAVED AS SET 22

In these cases, it would be helpful to browse through the on-line index to see how terms were entered, as well as to see other terms with the same stem.

The LOOK command is used to display terms lists from the data base index. Three types of lists can be generated:

- Adjacent Term Lists
- Stem Lists
- Browse Lists

#### 3.2.3.1 Adjacent Term Lists

An adjacent term list may be generated to display a list of terms from the index that is alphabetically adjacent to the user-supplied term. To create such a list, enter LOOK, field mnemonic, an "equal" sign, and the field value. For subjects, enter only LOOK and the field value.

#### Example

#### 23/LOOK SWATH

. I	rems.	TERMS	
A	1	DE=SWARD MACHINE	
В	1	DE=SWASH	
С	50	DE=SWASH(SMALL WATERPLANE AREA SINGLE HUL	L)
		USE DE=HIGH PERFORMANCE SHIPS	
****	YOUR	TERM ****	
D	6	DE=SWATH SHIPS	
E	1	DE=SWATH 2	
F	1	DE=SWATH 3	
MORE	TERMS	ARE AVAILABLE	
PICK	LETTER	RS TO COMBINE	

Three terms above and below your term will be displayed from the index. Your possible responses are:

- (i) ALL
- (ii) Select letters or range of letters
- (iii) MORE

In order to receive a longer display of adjacent terms, enter the desired number of terms in parentheses after the LOOK command. To receive a larger display of adjacents for your entire terminal session, use the SET command before the LOOK command using the form:

SET ADJACENTS TO number

Evample		•	
Example	H	0	DE=PROPELLER BLADE CAVITATION NOISE
		4	USE DE=CAVITATION NOISE
		1	AND DE=PROPELLER CAVITATION
	I	0	DE=PROPELLER BLADE EROSION
		3	USE DE=EROSION
		16	AND DE=PROPELLER BLADES
	J	16	DE=PROPELLER BLADES
•	K	7	DE=PROPELLER BLADES (MARINE)
	L	2	DE=PROPELLER BOSSES
			USE DE=PROPELLER HUBS
	MORE	TERMS	ARE AVAILABLE
	PICK	LETTE	RS TO COMBINE

```
23/LOOK(10)ACOUSTIC
 .ITEMS.
            TERMS
           DE=ACETONES
           DE = ACETYLENE
В
        1
C
        0
           DE=ACID NUMBER
                    DE=SAPONIFICATION NUMBER
               USE
D
           DE=ACIDS
           DE=ACLS (AIR CUSHION LANDING SYSTEMS)
Ē
        1
      YOUR TERM ****
           DE=ACOUSTIC ABSORPTION
F
        3
           DE=ACOUSTIC ARRAYS
G
H
        1
           DE=ACOUSTIC BUOYS
                    DE=SONOBUOYS
               USE
           DE=ACOUSTIC CAMOUFLAGE
        1
Ι
                    DE=ACOUSTIC COUNTERMEASURES
               USE
           DE=ACOUSTIC COATINGS
MORE TERMS ARE AVAILABLE
PICK LETTERS TO COMBINE
  23/SET ADJACENTS TO 12
```

#### 23/LOOK PROPELLER

```
.ITEMS.
              TERMS
           DE=PROPAGATION RATE
                  DE=PROPAGATION
        22
            USE
        17
                  DE=RATES
            AND
           DE=PROPAGATION VELOCITIES
В
        22
             USE
                  DE=PROPAGATION
        48
            AND
                  DE=VELOCITY
         3
           DE=PROPANE
C
            DE=PROPELLANT BINDERS
D
             USE
                  DE=BINDERS
             AND
                  DE=PROPELLANTS
            DE=PROPELLANT STORAGE
Е
                    DE=STORABLE ROCKET PROPELLANTS
               USE
        7
            DE=PROPELLANTS
      YOUR TERM *****
G
         3
            DE=PROPELLER ALLOYS
         99
             USE
                  DE=ALLOYS
                  DE=PROPELLERS
         59
             AND
```

#### 3.2.3.2 Stem Lists

By entering part of a search term followed by an asterisk, the system will display terms from the index with that common stem. The LOOK command preceding the stem is optional. A maximum of 26 terms may be displayed in a stem list. To reduce the default of 26 terms to a list, enter either:

#### Search term\* number

or:

SET TERMS TO number

#### Example

```
1/CS=DT*
  .ITEMS.
              TERMS
Α
            CS=DTMB. ACOUSTICS AND VIBRATION LAB
В
            CS=DTMB. AERODYNAMICS DEPT
C
           CS=DTMB. AERODYNAMICS LAB
D
            CS=DTMB. AEROMECHANICS LAB
E
            CS=DTMB. APPLIED MATHEMATICS LAB
            CS=DTMB. HYDROMECHANICS LAB
F
G
            CS=DTMB. STRUCTURAL MECHANICS LAB
H
      177 CS=DTNSRDC
                USE CS=DAVID W TAYLOR NAVAL SHIP RES AND DEV CENTER
Ι
            CS=DTNSRDC. AVIATION AND SURFACE EFFECTS DEPT
J
            CS=DTNSRDC. COMP MATH AND LOGISTICS DEPT
K
            CS=DTNSRDC. COMPUTATION AND MATHEMATICS DEPT
            CS=DTNSRDC. ENERGY R/D OFFICE
        7 CS=DTNSRDC. MATERIALS DEPT
22 CS=DTNSRDC. PROPULSION AND AUXILIARY SYS DEPT
M
N
0
            CS=DTNSRDC. SHIP ACOUSTICS DEPT
            CS=DTNSRDC. SHIP MATERIALS ENGINEERING DEPT CS=DTNSRDC. SHIP PERFORMANCE DEPT
P
Q
R
            CS=DTNSRDC. STRUCTURES DEPT
            CS=DTNSRDC. SYSTEMS DEVELOPMENT DEPT
CS=DTNSRDC. UNDERWATER EXPLOSIONS RESEARCH DIV
S
END OF TERMS WITH YOUR STEM
PICK LETTERS TO COMBINE
   1/SET TERMS TO 5
   1/CS=DT*
  .ITEMS.
              TERMS
            CS=DTMB. ACOUSTICS AND VIBRATION LAB
R
         2
            CS=DTMB. AFRODYNAMICS DEPT
С
            CS=DTMB. AERODYNAMICS LAB
D
            CS=DTMB. AEROMECHANICS LAB
            CS=DTMB. APPLIED MATHEMATICS LAB
MORE TERMS ARE AVAILABLE
```

To retrieve all documents with a common stem without first displaying and selecting from a stem list, enter ALL after the asterisk.

#### Example

with stem\_list

PICK LETTERS TO COMBINE

# 2/WELD\* .ITEMS. TERMS A 6 DE=WELD JOINTS USE DE=WELDED JOINTS B 1 DE=WELD METAL C 1 DE=WELDABILITY

D 6 DE=WELDED JOINTS
E 24 DE=WELDING
F 1 DE=WELDING POSITION
G 10 DE=WELDS
END OF TERMS WITH YOUR STEM
PICK LETTERS TO COMBINE

#### without stem list

#### 2/WELD\*ALL

7 TERMS WITH YOUR STEM WERE COMBINED 30 ITEMS SAVED AS SET 2

#### 3.2.3.3 Browse Lists

Index browsing operates exactly like stem selection, except that it will not stop when the common prefix is exhausted, but will continue until the requested number of index terms has been displayed.

#### Example

#### 3/LOOK COMBUST\*\*

	.ITEMS.	TERM
Α	3	DE=COMBUSTIBILITY
		USE DE=FLAMMABILITY
В	26	DE=COMBUSTION
С	. 7	DE=COMBUSTION CHAMBERS
D	1	DE=COMBUSTION DEPOSITS
E	_	DE=COMBUSTION EFFICIENCY
F	1	DE=COMBUSTION MODIFIERS
		USE DE=ADDITIVES
	26	
G	1	DE=COMBUSTORS
H	ī	DE=COMDAC (COMMAND, DISPLAY AND CONTROL SYSTEM)
I	ī	DE=COMMAND GUIDANCE
J	_	DE=COMMERCIAL APPLICATIONS
K		DE=COMMERCIAL AVIATION
L		DE=COMMERCIAL EQUIPMENT
M	_	DE=COMMERCIAL FISHING
N	15	
		USE DE=MERCHANT VESSELS
0	1	DE=COMMERCIAL W GRADED ENGINE OILS
P	4	DE=COMMODITIES
Q	34	DE=COMMUNICATION AND RADIO SYSTEMS
×	24	DD-COMMONICATION AND RADIO SISTEMS

```
R
           DE=COMMUNICATION EQUIPMENT
S
           DE=COMMUNICATION SATELLITES
           DE=COMMUNICATIONS CHANNELS
                   DE=MULTICHANNEL COMMUNICATIONS
           DE=COMMUNICATIONS CIRCUITS
              USE DE=TELECOMMUNICATION CIRCUITS
           DE=COMMUNICATIONS NETWORKS
           DE=COMMUNICATIONS TERMINALS
W
      100
X
           DE=COMMUNIST COUNTRIES
Y
           DE=COMMUNITIES
           DE=COMPARATIVE STUDIES
MORE TERMS ARE AVAILABLE
PICK LETTERS TO COMBINE
```

#### 3.3 Free-Text Searching and SCAN Command

Most search requests will be satisfied with searches through the data base index. This is an extremely efficient method since it need not look at actual data records. There are some drawbacks to this method, however:

- (1) Searches can only be satisfied if the document had been indexed by a Library cataloger under the specific search term; that is, the cataloger must have known ahead of time that a search would be required for this term. In an R&D environment, this is extremely difficult,
- (2) Terms that are infrequently searched must be kept in the index even if rarely used, creating additional storage overhead.
- (3) A search might be required on one of the data elements not picked up for indexing at all, such as limiting a search by number of pages or by personal author.

A sequential search which looks at the actual bibliographic records in the head file may be used to overcome these drawbacks. Scanning the words in titles of technical documents is a very rich source of information.

The SCAN command is used to perform a "free-text" search on a document set and is used when direct index searches do not provide sufficiently specific results.

Since SCAN scans a document set, the first step in any free-text search is to form a document set with a regular index search. If a document set is not cited in a SCAN command, the last set formed will be used. Therefore, one frequently begins a free-text search by "bringing down" the desired document set so that it immediately precedes the SCAN command. This can be accomplished with the FIND command.

#### Example

FIND 7 SCAN TI TRIDENT All the tests cited in a SCAN statement will be performed on one pass over a document set. For the sake of efficiency, all desired tests on a specific set should be entered in one SCAN command. If you do not want to combine the tests until seeing the results of the SCAN, connect the tests with the word ALSO instead of with a BOOLEAN expression. Example

SCAN FG(1) PR ALSO IDT TRIDENT ALSO CS=NAVY\*

A SCAN statement may total 1000 characters. Continue terminal lines with a +. A search value should be put in quotes if it conflicts with a reserved word or symbol. Example

SCAN TI "BASIS"

or

SCAN TI "COMMUNICATIONS AND RADIO EQUIPMENT" AND RED + SCAN. . . 19790815/19790912

#### 3.3.1 Word and Character String Matching

In its simplest form, the SCAN command may be used to search for a given word or character string embedded anywhere in a field. For example,

**SCAN 8 TI ENERGY** 

will cause BASIS to search the TI (title) field in all records belonging to set 8, putting the records that have the word ENERGY in their titles into the resulting set.

Several fields can be scanned at once. For example,

SCAN TI,NT ENERGY CONSERVATION

will cause BASIS to search the TITLE and NOTE fields in all records belonging to the last set for the string ENERGY CONSERVATION. More than one string can be searched for by entering each string separated from the next by a comma.

SCAN TI COAL,GAS

will cause the TI field to be scanned for the word COAL followed later by the word GAS.

One can ensure that multiple words occur in the same sentence by entering a request using the SS operator.

SCAN TI SS COAL, GAS

will cause the TI field to be scanned for the word COAL followed by GAS in the same sentence.

SCAN AU(2) JONES W E

scans the second occurrence only of the author field.

SCAN TI TOXI\*

will scan the title field for any word starting with TOXI, such as Toxicology, Toxicity, Toxic, etc. This is equivalent to:

SCAN TI TOXI\*ALL

The open character "\*" lets a user perform suffix and infix searches as well as prefix (stem) searches. Use the form:

SCAN TI PRE\*, \*SUF, IN\*FIX

#### Example

SCAN TI,NT COAL,\*TION

would find records in which the word "COAL" was followed by a word ending with "...TION," such as "Coal Liquefaction" and "Coal Gasification."

Other "open" characters are:

- \* matches any number of characters of any kind
- @ matches any letter (A to Z)
- ! matches any digit (0 to 9)
- \$ matches any letter or digit
- matches any non alpha-numeric character
- ? matches any character.

Ex	aı	m	pi	les

SCAN CN=@!!! The call number must be one letter followed by 3 digits SCAN DE CON@@ The DE field must contain a word starting with "CON"

followed by exactly two more letters

SCAN IDT 12!!! The identifier field must contain a word that is a number

from 12000 to 12999

SCAN NT Sponsored by The note field must contain the word phrase "sponsored by"

#### 3.2.2. Word and Character Distance Searching

The following words and symbols may be used to specify distances between desired words:

Includes the words or strings
Includes the words or strings
Includes the words or strings in the same sentence
Includes the words or strings in the same field
The words must be n words apart
The words must be <n apart<="" td="" words=""></n>
The words must be >n words apart
The words must be 0 words apart
The words or strings must be n characters apart
The words or strings must be <n apart<="" characters="" td=""></n>
The words or strings must be >n characters apart

Examples

SCAN TI ENERGY ADJ CONSERVATION

"Energy" must be immediately followed by "Conservation"

SCAN TI,NT,SS COAL<5 GAS\* W>4+

SCAN. . . PROJECT

"Coal" must be followed within five words by a word starting with "Gas. . ." followed at least four words later by "Project"

SCAN CS A C=12 B<10C

The corporate source field must contain a word with an "A" followed by any 12 characters, then a "B," and within 10 characters a "C."

3.3.3. Existence Tests

You may search for the presence or absence of a field or a particular occurrence of a field.

Examples

SCAN FG(1) PR

Tests if the first occurrence of the field/group

field is present

SCAN DD AB

Tests if the due date field is absent, indicating

an indefinite loan

SCAN LS PR

Tests if the lost field is present

3.3.4. Equality Tests

An equality test checks to see if the contents of a field or subfield are exactly the same as a user-supplied phrase. This differs from the simple SCAN command, which tests to see if the user-supplied phrase occurs anywhere in a given field or subfield.

Examples

SCAN AU=JONES E A

Checks if the entire contents of the AU field is "JONES E A"

SCAN AU EQ JONES\*

Checks if the AU field starts with "Jones. . ."

SCAN AU(\*)NE Jones E A

Checks if any occurrence of the AU field starts with something other than "Jones E A"

3.3.5. Relational Tests

This uses the relational operators in the SCAN command.

Examples

SCAN PP LT 100

SCAN FG(1) GE 0800

Are there fewer than 100 pages

Is the first occurrence of the field group field a number that is greater than or equal

to 0800.

## 3.3.6 Intrafield Comparisons

You may compare the contents of two fields using a relational operator or an equality test. In order to differentiate between a field mnemonic and a character string, precede the field mnemonic that may cause confusion with a pound sign "#".

SCAN CS(\*) = IDT

will scan the corporate source field for any element that is equal to "IDT".

SCAN CS(\*) = #IDT(\*)

will scan the corporate source field for any element that is the same as any element in the identifier field.

Examples

**SCAN RED GE #RD** 

SCAN SE=#CN

Is the record entry date greater than or equal

to the reclassification date

Is the report number the same as the call

number

# 3.4 Special Search Modes

#### 3.4.1 Universe Search Mode

It is sometimes useful to limit your search to a portion of the data base. For example, if you were interested in work sponsored or performed by the Navy, you would form a set of all Navy-authored reports and declare that set to be universe. Each set selected thereafter will be effectively ANDed with the universe. Use the form:

SET UNIV(ERSE) = document set no.

To "turn off" the universe:

SET UNIV OFF

3/CS=NAVY DEPT

341 ITEMS SAVED AS SET 3 4/SET UNIV=3

4/ENERGY CONSERVATION

25 ITEMS SAVED AS SET 4 IN YOUR DATA BASE SUBSET, LINE=3

#### 3.4.2 Hierarchical Search Mode

This mode limits the "universe" of a search to the last set of documents selected, so that the universe gets smaller and smaller with each selection.

Use the form:

SET HIER = document set no.

or

SET HIER ON (defaults to last set formed)

To "turn off," use the form:

**SET HIER OFF** 

To see the "status" of special search modes, use the form:

LIST STATUS

## Example

5/SET HIER ON

## 5/LIST STATUS

ON-LINE LINE LENGTH	80
OFF-LINE LINE LENGTH	80
INDENTATION	5
SEARCH SUBSET (UNIV)	OFF
HIERARCHICAL SEARCHING MODE	ON
SEQ SEARCH WARNING MESSAGE	OFF
PAUSE COUNT	1000000
ADJACENT TERMS	6
USAGE OF LINKS	OFF
USAGE OF PAGING	ON
SHOW ITEM COUNT	ON
SHOW SEQUENCE NUMBERS	OFF
SHOW FIELD NUMBERS	OFF
SHOW FIELD HEADINGS	ON
SHOW FIELD UNITS	OFF
DEBUG	OFF
SUPPRESS UNIV IN TERM LISTS	OFF
USE DEFINED VARIABLE VALUE	OFF

## 3.5 Sample Search (on "Propulsion Plant Efficiency")

1/BROWSE

(enter the Thesaurus module)

/ENTER TERM
/GAS TURBINES

GAS TURBINES

BT ENGINES

BT TURBINES

BT TURBOMACHINERY

```
UF INDUSTRIAL GAS TURBINES
```

UF SMALL GAS TURBINE

NT \* MARINE GAS TURBINES

#### ENTER TERM

/MARINE GAS TURBINES

## MARINE GAS TURBINES

BT ENGINES

BT GAS TURBINES

BT TURBINES

BT TURBOMACHINERY

UF SHIP TURBINES

NT AUXILIARY GAS TURBINES (MARINE)

NT PROPULSION GAS TURBINES (MARINE)

#### ENTER TERM

/MARINE STREAM TURBINES

## MARINE STEAM TURBINES

BT STEAM TURBINES

BT TURBINES

BT TURBOMACHINERY

UF SHIP TURBINES

NT \* AUXILIARY STEAM TURBINES(MARINE) ("\*" means term
NT PROPULSION STEAM TURBINES(MARINE) has narrower

terms still)

#### ENTER TERM

/AUXILIARY STEAM TURBINES(MARINE)

#### AUXILIARY STEAM TURBINES (MARINE)

BT MARINE STEAM TURBINES

BT STEAM TURBINES

BT TURBINES

BT TURBOMACHINERY

NT SHIP SERVICE TURBOGENERATORS

#### ENTER TERM

/MARINE DIESEL ENGINES

#### MARINE DIESEL ENGINES

SN INCL. MEDIUM OR HIGH SPEED DIESEL ENGINES MANUFACTURED

SN OR ADAPTED FOR SHIPBOARD USE.

BT DIESEL ENGINES

BT ENGINES

BT INTERNAL COMBUSTION ENGINES

BT PISTON ENGINES

BT RECIPROCATING ENGINES

NT AUXILIARY DIESEL ENGINES (MARINE)

NT PROPULSION DIESEL ENGINES (MARINE)

# ENTER TERM /FUEL OILS

FUEL OILS

BT ENERGY SOURCES

BT FOSSIL FUELS

BT FUELS

BT MATERIALS

BT OILS

BT ORGANIC MATERIALS

BT PETROLEUM PRODUCTS

NT \* DIESEL FUELS

NT HEATING OILS

NT NAVY DISTILLATE FUELS

NT RESIDUAL FUELS

#### ENTER TERM

/DIESEL FUELS

#### DIESEL FUELS

BT ENERGY SOURCES

BT FOSSIL FUELS

BT FUELS

BT FUEL OILS

BT MATERIALS

BT OILS

BT ORGANIC MATERIALS

BT PETROLEUM PRODUCTS

UF DIESEL OIL

NT DIESEL FUEL MARINE

NT MARINE DIESEL FUELS

RT RESIDUAL FUELS

#### ENTER TERM

/BASIS

(return to retrieval module)

1/MARINE GAS TURB\*

(stem search)

.ITEMS. TERMS

A 1 DE=MARINE GAS TURBINE GENERATOR SETS

B 18 DE=MARINE GAS TURBINES

END OF TERMS WITH YOUR STEM

PICK LETTERS TO COMBINE

1/ALL

18 ITEMS SAVED AS SET 1

CONTINUE PICKS OR REQUESTS

2/MARINE STEAM TURBINES

28 ITEMS SAVED AS SET 2 3/MARINE DIESEL ENGINES

```
14 ITEMS SAVED AS SET 3 4/DIESEL FUEL MARINE
```

15 ITEMS SAVED AS SET 4 5/NAVY DISTILLATE FUELS

6 ITEMS SAVED AS SET 5 6/FUEL CONSUMPTION

48 ITEMS SAVED AS SET 67/LOOK COMBUSTION

(adjacent term search)

```
.ITEMS.
             TERMS
           DE=COMBINED CYCLE ENGINES
A
           DE=COMBINED CYCLE POWER PLANTS
C
           DE=COMBUSTIBILITY
              USE DE=FLAMMABILITY
       26**DE=COMBUSTION
D
Е
          DE=COMBUSTION CHAMBERS
         DE=COMBUSTION DEPOSITS
MORE TERMS ARE AVAILABLE
PICK LETTERS TO COMBINE
   7/MORE
```

```
TERMS
   .ITEMS.
. A
            DE=COMBUSTION EFFICIENCY
 В
         1
            DE=COMBUSTION MODIFIERS
         13
            USE DE=ADDITIVES
         26
           AND DE=COMBUSTION
         1 DE=COMBUSTORS
 C
 D
           DE=COMDAC (COMMAND, DISPLAY AND CONTROL SYSTEM)
            DE=COMMAND GUIDANCE
           DE=COMMERCIAL APPLICATIONS
 MORE TERMS ARE AVAILABLE
 PICK LETTERS TO COMBINE
    7/A
```

6 ITEMS SAVED AS SET 7
CONTINUE PICKS OR REQUESTS
8/ENGINE EFFICIENCY

5 ITEMS SAVED AS SET 8
9/LIST (lists all sets created so far)

.ITEMS. LINE REQUEST 1/ DE=MARINE GAS TURB(STEM) A,B
2/ MARINE STEAM TURBINES
3/ MARINE DIESEL ENGINES 18 28 4/ DIESEL PUEL MARINE 5/ NAVY DISTILLATE FUELS 15 6 6/ PUEL CONSUMPTION 48 6 7/ DE=COMBUSTION EFFICIENCY
5 8/ ENGINE EFFICIENCY
9/FIND FG=1320 OR FG=2100 OR FG=1315 9/ FG=1320 10/ FG=2100 122 40 11/ FG=1315 12/ FG=1320 OR FG=2100 OR FG=1315 305 421 13/SCAN TI ENERGY, ADVANCED (free-text search of title field)

- \* 4 13/ SCAN 12 TI ENERGY,ADVANCED 14/SCAN 13 TI,MDE,DE CYCLE\*
- \* 0 14/.SCAN 13 TI,MDE,DE CYCLE\*

  15/((1 OR 2 OR 3 OR 4 OR 5 OR 6)AND(7 OR 8 OR 9)OR 13 OR 14)

  (Boolean expression)

  24 ITEMS SAVED AS SET 15

  16//2 NOLIST (list search results in format #2)

THE FOLLOWING ARE PARAMETERS TO BE SATISFIED LINE?15

- C34628 LIBR: C 02/1979 REC: 3461 SURFACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT, USS ENGLAND (CG-22), TEST DATE: 1 DECEMBER 1978
- C34686 LIBR: C 03/1979 REC: 5536 SURFACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT, USS TUSCALOOSA (LST-1187), TEST DATA: 12 DECEMBER 1978.

REMAINDER OF LISTING OMITTED

## 4. Output

## 4.1 Format Options

Six bibliographic formats for listing literature search results are available. The listings may be printed either at your terminal or on a high-speed off-line printer. Samples of each format are shown in Figure 5.

The six formats sort records numerically by call number in order to facilitate physical retrieval of the desired documents. Formats 5 and 6, however, may be sorted in descending chronological order by publication date. The following are the possible format options (note that all format requests are preceded by a slash "/"):

For Terminal Listings	For Off-line Listings
/1	/1 OFFLINE
/2	/2 OFFLINE
/3	/3 OFFLINE
/4	/4 OFFLINE
/5	/5 OFFLINE
/5 DATE	/5 DATE OFFLINE
/6	/6 OFFLINE
/6 DATE	/6 DATE OFFLINE

After entering your format option, the system will prompt you for the document set number you wish to list. For off-line requests, you will also be asked to supply a terminal ID. Some of your possible responses are:

Terminal ID	Location of Printer
C	Central Site (Math Lab)
001	Printer at Data Systems Division
111	Printer in Code 15's terminal room
011	Printer at Annapolis
C, FC=HH	For Xerox at Central Site

## Example

16//5 DATE OFFLINE

THE FOLLOWING ARE PARAMETERS TO BE SATISFIED LINE?1

TERMINAL ID? 001

Figure 5 - Format Options for Listing Literature Search Results

/1

V	M 753.S 671978I	LIBRARY: C/REF AN	RECORD:	4275
V	m 753.s 671978m	LIBRARY: C/REF AN	RECORD:	4279
v	M 753.S 671978N	LIBRARY: C/REF AN	RECORD:	4280

Fields included: Call Number, Library, Record ID

/2

VM 753.S 6719781 LIBR: C/REF AN 00/1979 REC: 4275 USEFULNESS OF QUASI-STEADY APPROACH FOR ESTIMATION OF PROPELLER BEARING FORCES. IN PROPELLERS 78, SYMPOSIUM, VIRGINIA BEACH, VA, 1978

VM 753.S 671978M LIBR: C/REF AN 00/1979 REC: 4279 INFLUENCE OF PROPELLER MEAN LOADS ON PROPULSION SHAFT ALIGNMENT. IN PROPELLERS 78, SYMPOSIUM, VIRGINIA BEACH, VA, 1978

Fields included: Call Number, Library, Record ID, Publication Date, Title

/3

14

VM 753.S 671978I LIBR: C/REF AN 00/1979 REC: 4275 USEFULNESS OF QUASI-STEADY APPROACH FOR ESTIMATION OF PROPELLER BEARING FORCES. IN PROPELLERS 78, SYMPOSIUM, VIRGINIA BEACH, VA. 1978

DESCRIPTORS: PROPELLERS(MARINE)-LOADS(FORCES); SHIP WAKE; PROPELLER SHAFTS
JAPAN

Fields included: Call Number, Library, Record ID, Publication Date, Title, Descriptors

VM 753.S 671978I LIBRARY: C/REF AN
USEFULNESS OF QUASI-STEADY APPROACH FOR ESTIMATION OF PROPELLER BEARING
FORCES. IN PROPELLERS 78, SYMPOSIUM, VIRGINIA BEACH, VA, 1978
00/1979 PP.20 SASAJIMA T
SNAME-T/R-S-6-P-11
FOR PRIMARY DOCUMENT, SEE VM 753.S 671978, P.11-1 - 11-20.

Fields included: Call Number, Library, Record ID, Publication Date, Title, Special Form, Pagination, Author Main Entry, Report Number, Note

```
15
            VM 753.S 6719781
                                          LIBRARY: C/REF AN
      USEFULNESS OF QUASI-STEADY APPROACH FOR ESTIMATION OF PROPELLER
      BEARING
      FORCES. IN PROPELLERS 78, SYMPOSIUM, VIRGINIA BEACH, VA, 1978
           00/1979
                              PP.20
           SNAME-T/R-S-6-P-11
           FOR PRIMARY DOCUMENT, SEE VM 753.S 671978, P.11-1 - 11-20.
           DESCRIPTORS: PROPELLERS (MARINE) - LOADS (FORCES); SHIP WAKE;
           PROPELLER SHAFTS
            JAPAN
           IDENTIFIERS: BEARING FORCES
     Fields included: Call Number, Library, Record ID, Publication Date, Title, Special
                    Form, Pagination, Author Main Entry, Report Number, Note,
                    Descriptors, Identifiers
                                          LIBRARY: C/REF AN
           VM 753.S 671978I
      SASAJIMA T
                                         SNAME
      MITSUBISHI HEAVY INDUSTRIES LTD (JAPAN)
           USEFULNESS OF QUASI-STEADY APPROACH FOR ESTIMATION OF
/6
      PROPELLER
           BEARING FORCES. IN PROPELLERS 78, SYMPOSIUM, VIRGINIA BEACH,
      VA,
            1978
           00/1979 PP.20
                               SNAME-T/R
                               -S-6-P-11
           FOR PRIMARY DOCUMENT, SEE VM 753.S 671978, P.11-1 - 11-20.
           DESCRIPTORS: PROPELLERS (MARINE) - LOADS (FORCES); SHIP WAKE;
            PROPELLER SHAFTS
            JAPAN
            IDENTIFIERS: BEARING FORCES
     Fields included: Call Number, Library, Record ID, Publication Date, Title, Special
                    Form, Pagination, Author Main Entry, Report Number, Note,
                    Descriptors, Identifiers, Publisher, Corporate Source, Authors
```

#### 4.2 SORT Command

After retrieving a document set and before reviewing the results via the DISPLAY or PRINT commands, it is sometimes helpful to first sort the document records in some meaningful order. The default order of records in a document set is numerical by RECORD ID. Document sets that are to be output in one of the six format options should not be sorted by the user, since the format program automatically sorts the set by call number or, if specified, in descending chronological order by publication date.

With the SORT capability, a user can sort a document set defined by any previous line number in either ascending or descending order by any field, by occurrence within a field, or by any combination of fields.

## Examples

**SORT TI** 

Will sort the last document set alphabetically by title

SORT Line=7 TI

Will sort the document set defined by line 7 alphabetically by title

SORT Line=2 MDE, Pl	<b>D</b> . 1	П
---------------------	--------------	---

Will sort line 2 by major descriptors; within major descriptors by publication date; and

then by title

SORT PD/D, TI/D

Will sort the last set in descending chronological order of publication date; and within each date, in descending alphabetical order of title (Z to A)

SORT FG(1) AU(1)

Sorts on the first occurrence of the field/group

and author fields

SORT DE(\*)

Sorts on each subject descriptor\*\* (a title with three subjects will appear three times)

**SORT TI(1:80)** 

Sorts on the first 80 characters of the title (the

default is the first 60 characters)

SORT CS(\*)

Sorts on all corporate authors

**SORT TI(1)(1:150)/D** 

Sorts in reverse alphabetical order on the first 150 characters of the first title

The DROP parameter may be appended to the end of a SORT statement to drop from the output display records that do not contain the major (first) sort key. If DROP is not used, the records not containing the major sort key will appear first in the listing or, if sorted in descending order, will appear last.

#### Examples

SORT	FG(1)	DROP

Will sort records by the first occurrence of the field/group field and will drop from the set any records for which the first FG was omitted

SORT Line=1 PD/D DROP

Will sort the first document set so that most current titles will be placed first; records showing no publication date will be dropped

#### 4.3 DISPLAY Command

The fastest way to review selected records at your terminal is with the DISPLAY command. Use the form:

DISPLAY document set no. fields FOR item numbers

If the document set number is omitted, the last set created is displayed. The fields may be field mnemonics, field numbers, or ALL. The item numbers may be ALL or a range of numbers.

#### Examples

DISPLAY ALL FOR ALL DISPLAY=2, TI,CN FOR 1-5 Displays all fields for all records in the last set Displays titles and call numbers for the first five records of the second document set

<sup>\*\*</sup>The asterisk should be used for all sorts on repeating fields.

DISPLAY ALL for 10-20

Displays all fields for items 10 to 20 of the last document set

Another important function of DISPLAY is to print a single record from the head file. Use the DISPLAY command followed by the record's ID in parentheses followed by the fields desired.

#### Example

DISPLAY (1238) ALL

Displays all fields for record #1238

**DISPLAY (400237) BR,DD** 

Displays the borrower and due date for record #400237

## 4.3.1 Mapped Fields

The Library data base has three "mapped fields."

- BIB for bibliographic data
- CTR for center report data
- INV for inventory data

When you DISPLAY a "mapped field," you actually display a group of fields all having a common attribute.

BIB shows ID, Major Descriptors, Specific Descriptors, and Identifiers. BIB would normally be used to "test" a document set for accuracy before outputting your search results in a format option.

#### Example

25/FIND TYP=FR-CTR

(code for formal reports)

\* 18 25/ TYP=FR-CTR 26/DISPLAY BIB FOR 3

ITEM 3

RECORD ID

404

TITLE EVALUATION OF SINGLE PASS SEAWATER REVERSE OSMOSIS MODULES AND PRETREATMENT TECHNIQUES, PHASE 2

MAJOR DESCRIPTORS DESALINATION-TEST METHODS; WATER TREATMENT-SHIPS; REVERSE OSMOSIS-SHIPS; SEA WATER-ULTRAFILTRATION MEMBRANES

SUBJECT DESCRIPTORS: MODULAR CONSTRUCTION; FUSED SILICA; SILICATES; DESTRUCTION; COLIFORM BACTERIA; VALUE; ELECTROLYSIS; HYDROLYSIS; PH FACTOR; DRINKING WATER; CHLORINATION

IDENTIFIERS SPECIES POTABLE WATER; SINGLE PASS; PRETREATMENT; BACTERIOLOGICAL

CTR shows the digits from a formal Center Report number (omitting the acronym), the title, and any circulation restriction.

## Example

26/DISPLAY CTR FOR 3

3

#### ITEM 3

TRANSPOSED REPORT NR:77-0011 TITLE EVALUATION OF SINGLE PASS SEAWATER REVERSE OSMOSIS MODULES AND PRETREATMENT TECHNIQUES, PHASE 2

INV shows location and copy information, publication date, and item identification. This would normally be used by the Acquisitions or Cat loging Staff to see the number of copies owned for an existing title in the collection.

## Example

26/ID=663

1 ITEM SAVED AS SET 26 27/DISPLAY INV

#### ITEM 1

RECORD ID

663

CALL NUMBER

TJ 151.M 31975

TITLE

MACHINERY'S HANDBOOK A REFERENCE BOOK FOR THE MECHANICAL

ENGINEER, DRAFTSMAN, TOOLMAKER AND MACHINIST. 20TH EDITION ICATION DATE 19750000

PUBLICATION DATE

LIBRARY CARDEROCK CARDEROCK COPIES

5,6,8,9

LIBRARY ANNAPOLIS

AN

ANNAPOLIS COPIES

1-4,7,10,11

The format of the display may be modified by SETting certain parameters. Figure 6 shows a sample DISPLAY.

## Example

SET HEADING LABELS ON/OFF

Supresses field lables such as "TITLE";

"AUTHORS:," etc.

SET FIELD NUMBERS ON/OFF

Used after setting headings OFF to replace

field labels with field numbers

SET ITEM ON/OFF

Turns off item count that normally precedes

each record display

SET PAUSE TO #

Causes display of records to halt after a certain number before continuing; this is intented for

**CRT** users

## Figure 6 - Sample DISPLAYS

28/SORT PD/D CS TI

28/ 15 SORT=PD/D CS TI 29/DISPLAY PD,CS,TI FOR 1-2

Sorts 16 records in descending chronological order, by corporate source, and by title. Displays sorted set to show publication date, corporporate source, and title for two records.

#### ITEM 1

PUBLICATION DATE

19790300

CORPORATE SOURCE

NAVAL OCEAN SYSTEMS CENTER

TITLE

SURFACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT,

USS TUSCALOOSA (LST-1187), TEST DATA: 12 DECEMBER 1978.

#### ITEM 2

PUBLICATION DATE

19790300

CORPORATE SOURCE

NAVAL OCEAN SYSTEMS CENTER

TITLE SURFACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT,

USS BROOKE (FFG-1), TEST DATE: 12 JANUARY 1979

29/SET ITEM OFF

29/SET HEADINGS OFF

29/SET FIELD NUMBERS ON

#### 29/DISPLAY TI FOR 1-3

- 9. SURFACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT, USS TUSCALOOSA (LST-1187), TEST DATA: 12 DECEMBER 1978.
- 9. SURFACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT, USS BROOKE (FFG-1), TEST DATE: 12 JANUARY 1979
- 9. SURFACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT, USS BUCHANAN (DDG-14), TEST DATE: 9 JANUARY 1979
  29/SET PAUSE TO 2

#### 29/DISPLAY TI FOR ALL

- 9. SURFACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT, USS TUSCALOOSA (LST-1187), TEST DATA: 12 DECEMBER 1978.
- 9. SURFACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT, USS BROOKE (FFG-1), TEST DATE: 12 JANUARY 1979
  DO YOU WANT TO SEE THE NEXT ITEM (YES NO)? YES
  - 9. SURPACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT, USS BUCHANAN (DDG-14), TEST DATE: 9 JANUARY 1979
- 9. SURPACE SHIP RADIATED NOISE MEASUREMENT (SSRNM) REPORT, USS ENGLAND (CG-22), TEST DATE: 1 DECEMBER 1978
  DO YOU WANT TO SEE THE NEXT ITEM (YES NO)? NO

#### 4.4 PRINT Command

DISPLAY is used to print results at your terminal. To print search results on an off-line high-speed printer, use either the PRINT command or one of the six format options. Users should understand the difference between generating an off-line listing with the PRINT command and with one of the six format options. With PRINT or DISPLAY, the data elements for each record are merely listed with one field to a line. The six format options arrange the fields on the page similarly to a standard catalog card. For user bibliographies, the six format options are preferable to DISPLAY and PRINT listings.

The syntax for DISPLAY and PRINT are identical.

## Example

PRINT ALL FOR ALL

Prints off-line all fields in all the records of the last document set

PRINT=4 TI,ID,CS FOR 10-20

Will print the title, Record ID, and corporate authors for the tenth through the twentieth records in document set number 4

## PRINT(7012)ALL

Prints all fields for record #7012

Unlike the DISPLAY command and the six format options, PRINT allows a user to title bibliographies with the TITLE command. Issue the TITLE Command followed by the words of the title directly before the PRINT command.

## Example

5/ TITLE HYDRODYNAMICS RESEARCH IN THE NAVY

5/ PRINT = 2 ALL FOR ALL

If you should request a PRINT and later wish to cancel it, enter:

**CANCEL** 

PRINTS will be automatically routed to the off-line printer at Central Site at the end of your terminal session unless they are specifically routed to another printer. To ROUTE your PRINTS to another printer, enter the following while still in BASIS:

ROUTE(RID) = "Terminal ID"

This may be entered following each PRINT command, or after several PRINTS have been issued.

Some possible values of Terminal ID are:

001 for Data Systems' printer

111 for Code 15's printer

011 for Annapolis' printer

## Example

## 1/FIND FLUID FLOW AND PD GT 19790000

- 115 1/ FLUID FLOW
  - 95 2/ PD GT 19790000
- 4 3/ FLUID FLOW AND PD GT 19790000

4/TITLE VERY CURRENT WORK ON FLUID FOW

4/PRINT BIB FOR ALL

ORDER NUMBER 790927-122201-CRAD -002-001 WITH 4 OF 4 ITEMS WILL BE PRINTED OFF-LINE 4/ROUTE(RID)="001"

PLEASE ENTER YOUR MAILING ADDRESS TO LABEL YOUR PRINTS. SEPARATE EACH LINE WITH A COLON. ADDRESS...SHERRY MARTIN CODE 6080

SHERRY MARTIN CODE 6080

4/END

DTNSRDC LIBRARY DATA BASE USAGE TERMINATED

GOODBYE

COMMAND- LOGOUT

CPA 59.961 SEC SS 93.187 SEC

EST. SYSTEM COST \$ 13.54

EST. CONNECT COST \$ 10.83 CONNECT TIME 1 HRS. 5 MIN. 09/27/79 LOGGED OUT AT 13.26.02.

The printout for the above Search appears in Figure 7.

#### 5. Circulation Searches

Printed listings are available at each circulation desk showing borrower and due date information for every circulating item. However, if a searcher wishes to inquire on-line whether or not a publication of interest is checked out, he should use one of two possible formats:

(i) Perform a stem search on the prefix of the circulation call number. This is the same number as the cataloging record call number minus the copy number. For conference papers and other analytics, the call number used should be that of the bound set and not that of the individual paper. After identifying the call number from the cataloging record of interest, enter:

CCN = call number\*

or

CCN = call number\*ALL

4 ITEMS VERY CURRENT WORK ON FLUID FLOW PAGE 1 SET 3 WITH 4 OF

-001-001 ORDER NUMBER 790920-133637-CRMD

SUBJECT DESCRIPTORSISKIN FRICTION! MEASUPEMENT! FRIGATES! FOULING! CLEANING! HULL ROUGHNESS AND ASSOCIATED BOUNDARY LAYER FLOW SHIP HULLS-ROUGHNESS: SHIP HULLS-BOUNDARY LAYER FLOW MAJOR DESCRIPTORS RECORD 10 TITLE

SH! ARTADNE (UK) GREAT BRITAIN IDENTIFIERS

ITEM 2

TITLE SOUND PRODUCTION DUF TO LARGE-SCALE COMERENT STRUCTURES MAJOR DESCRIPTORS TURRULENT FLOWS SOUND PRESSURE; MATHEMATICAL MODELS SUBJECT DESCRIPTORS:COMERENCE; AMPLITUDF; SHEAR FLOW; ACOUSTIC FIELDS IDENTIFIERS 7074 RECORD ID Figure 7 -

ITEM 3 Sample PRINT

AN ISOLATED 7076 ON SOUND RADIATION FROM THE TRAILING EDGE OF AIRFOIL IN A UNIFORM FLOW RECORD ID TITLE

MAJOR DESCRIPTORS SOUND TRANSMISSION-TWO DIMENSIONAL AIRFOILS SUBJECT DESCRIPTORS:TRAILING ENGES! UNIFORM FLOW! BOUNDARY LAYER FLOW

ITEM 4

WAJOR DESCRIPTORS ACOUSTICS-LAMINAR FLOW SUBJECT DESCRIPTORS:WIND TUNNEL TESTS: LAMINAR BOUNDARY LAYER! CONTROL! CROSS WIND TUNNEL STUDY ON THE EFFECTS OF ACOUSTICAL CONTROLLED LAMINAR FLOW ACOUSTICS-LAMINAR FLOW 7077 . DISTURBANCES ON RECORD ID TITLE

THIS LIST OF PRINTS IS BASED ON

REQUEST 3/2 .ITEMS. LINE 115 95

SHERRY MARTIN CODE 6080

PLEASE MAIL THIS PRINTOUT TO

FLUID FLOW
PD GT 19790000
FLUID FLOW AND PD GT 19790000 ORDER NUMBER 790920-133637-CRMD

-001 (1 PRYNTS).

43

## Example

Who has checked out the seven copies of Machinery's Handbook?

1/CCN=TF J 151.M 31975\*ALL

7 TERMS WITH YOUR STEM WERE COMBINED 7 ITEMS SAVED AS SET 1 2/DISPLAY CRS,CCN,BR FOR 1-2

ITEM 1

CATALOG RECORD ID 663 CIRCULATION CALL NR TJ 151.M 31975C2 BORROWER'S NAME ALIBERTI J A

ITEM 2

CATALOG RECORD ID 663
CIRCULATION CALL NR TJ 151.M 31975C3
BORROWER'S NAME ALIBERTI J A

(ii) Since every circulation record contains a corresponding cataloging record ID, you could also search on the corresponding record number:

CRS = cataloging record ID

## Example

2/CRS=663

8 ITEMS SAVED AS SET 2
3/DISPLAY CRS,CCN,BR FOR 3-4

ITEM 3

CATALOG RECORD ID 663 CIRCULATION CALL NR TJ 151.M31975C4 BORROWER'S NAME CRAIG O E

ITEM 4

CATALOG RECORD ID 663 CIRCULATION CALL NR TJ 151.M 31975C5 BORROWER'S NAME TATUM S L

#### 6. PROFILE

Because of the recurring nature of many functions, the library system provides a capability called PROFILE. Following are the PROFILE Capabilities:

- Allows users to save search statements, output requests, and other repetitive user text
- Allows users to save a search session for later completion
- Allows sophisticated users to "program" the system to perform simple repetitive tasks There are two PROFILE files available to searchers:
  - (i) Data base PROFILE file
  - (ii) Your user's PROFILE file

The data base PROFILE file consists of profiles set up by the Data Base Administrator (DBA) for use by searchers. The six format options, in fact, are profiles stored on the data base PROFILE file. This file can only be altered by the DBA.

Every user is also provided a profile file associated with his or her BASIS ID that may be used for setting up and executing one's own profiles. Sections 5.1 through 5.4.3 describe procedures for creating and manipulating personal PROFILE files.

#### 6.1 PROFILE Creation

PROFILES may be created with one of three commands: /SUSPEND, /CREATE, or /MAKE.

#### 6.1.1 SUSPEND Command

This command is used to save all user input from a terminal session for total replay. Enter:

/SUSPEND

or:

PROFILE SUSPEND

or:

/SUSPEND Profile name of 1 to 20 characters

The slash (/) is a shortcut for typing out PROFILE and is used to get into the PROFILE module. If no profile name is supplied by the user, the system automatically supplies the name "SUSPEND\*SAVE."

Example

3//SUSPEND TRAINING SESSION

"SUSPEND\*TRAINING SESSION"
SAVED WITH 4 LINES OF TEXT

#### 3/FIND FROGS

0 3/ FROGS 4//SUSPEND

"SUSPEND\*SAVE"
SAVED WITH 6 LINES OF TEXT

## 6.1.2 SAVE Command

While SUSPEND captures all user input from the terminal session, /SAVE captures user input entered only since the last user-supplied /CREATE, /NEW, or /SAVE command. If none of these three commands had been previously entered, /SAVE will capture all user input from the beginning of the session. If no user-supplied profile name follows a SAVE command, the system automatically supplies the profile name of SAVE. Enter:

/SAVE

or:

/SAVE Profile Name

or:

**PROFILE SAVE Profile Name** 

#### 6.1.2.1 NEW Command

/NEW notes the start of a possible new profile that may be saved via the /SAVE command. When entered, the line numbers are reset to one. When performing searches for several different users, /NEW is a handy way of "throwing away" the sets of a previous search before beginning a new one.

#### Example

(user input underlined)

## 1/FIND FROGS AND TOADS

- \* 0 1/ FROGS \* 0 2/ TOADS
- \* 0 3/ FROGS AND TOADS

4/NEW

1/FIND NAVAL VESSELS AND ENERGY CONSERVATION END NOLIST

\* 16 3/ NAVAL VESSELS AND ENERGY CONSERVATION END NOLIST 4/DISPLAY TI, ID, PD, AU, CS FOR 1-2

ITEM 1

TITLE PROPOSAL FOR A STUDY OF TOTAL ENERGY SYSTEMS FOR NA VY

SHIPS; ENERGY SYSTEMS FOR NAVY SHIPS RECORD ID  ${f 46}$ 

PUBLICATION DATE 19750200

CORPORATE SOURCE GARRETT CORP(AZ) AIRESEARCH MPG DIV; NSRDC. ENERGY R/D

OFFICE

ITEM 2

TITLE U.S. NAVY CARRIER WASTEWATER PURIFICATION AND RECYCLE

SYSTEM-COST EFFECTIVENESS ANALYSIS OF COMPETING METHODS

RECORD ID 2510

PUBLICATION DATE 19770800

PERSONAL AUTHOR PHULL K K; LINDSTEN D C

CORPORATE SOURCE ARMY MOBILITY EQUIPMENT RES AND DEV CENTER; DAVID W TAYLOR

NAVAL SHIP RES AND DEV CTR(ANNAPOLIS)
4//SAVE ENERGY EFFICIENT SHIPS

"ENERGY EFFICIENT SHIPS" SAVED WITH 2 LINES OF TEXT

#### 6.1.2.2 CREATE Command

/CREATE, like /NEW, notes the start of a possible new profile that may be later captured via /SAVE. /CREATE, however, does not reset the line number to one.

#### 6.1.3 MAKE Command

/SUSPEND and /SAVE capture a regular retrieval session. /MAKE allows a user to build a profile for later execution without actually retrieving or listing any document sets. The profile is created through the PROFILE/REPORT editor. Profile lines are entered one at a time after a system prompt. "=" is entered to leave the profile ADD mode, and EXIT is entered to leave the PROFILE editor. See 5.4.2 for PROFILE editing. Example

(user input underlined)

4//MAKE WELDING RESEARCH IN THE NAVY

END ADD WITH =

100 =FIND WELD\*ALL AND CS=NAVY DEPT

110 = /5 DATE

120 = =

== EXIT

#### 6.2 PROFILE Parameters

PROFILE parameters may be included in the text of a profile to allow for the substitution of different field values at execution time. The searcher has already encountered PROFILE parameters in requesting one of the six search output formats. Remember how the system prompted the user to enter his "Line Number?" and "Terminal ID?"

A parameter name is put in [square brackets]. When a user enters any data in [square brackets], the contents of the brackets are considered to be a profile parameter name. This name may be 1 to 60 characters long. Profile parameters may be inserted in profiles that are created in the "capture mode" via the /SUSPEND or /SAVE commands, or in the profile ADD mode via the /MAKE command.

Profile parameters inserted in the capture mode:

```
(user input underlined)
4//NEW

1/FIND [DESCRIPTOR]
DESCRIPTOR? FLUID FLOW
```

1/ FIND FLUID FLOW

\* 115 1/ FLUID FLOW
2/PD GT [PUBLICATION DATE]

PUBLICATION DATE?19760000

2/ PD GT 19760000 1094 ITEMS SAVED AS SET 2 3/CS=NAVY DEPT

341 ITEMS SAVED AS SET 3

4/(1 AND 2 AND 3)

18 ITEMS SAVED AS SET 4
5//6 OFFLINE

THE FOLLOWING ARE PARAMETERS TO BE SATISFIED LINE?4

TERMINAL ID? 001

5/ SORT (LINE=4) CN KEEP(SUB="SUBS")DROP NOSET
5/ REPORT EXECUTE "6" PUT.FILE="OUTPUT"

```
ENTER REPORT DIRECTIVE
/ XEQ ROUTE, OUTPUT, DC=PR, TID=001, FID=CRSM
5//SAVE CURRENT NAVY PIC -A-TOPIC
```

"CURRENT NAVY PIC-A-TOPIC" SAVED WITH 5 LINES OF TEXT

Profile parameters inserted in the profile ADD mode:

(user input underlined)

5//MAKE SHIPS AND SOME BUZZWORD

END ADD WITH =
 100 =FIND [BUZZWORD] AND SHIPS

110 =/3 NOLIST

120 = =

== <u>E</u>

The above profile, in line 110, issues the command to execute another profile – the format 3 option. Profiles may be nested so that one profile executes another profile.

## 6.3 PROFILE Execution

To execute a profile from your PROFILE file, enter:

/EXECUTE

or:

/Profile name

or:

/EXECUTE Profile name

If no profile name is supplied, the system will execute the profile, if any, named "SAVE."

Example

/2

/5 DATE OFFLINE

/MY VERY OWN PROFILE MADE BEFORE LUNCH BREAK

Each line of the profile will be echoed back to the user as it is executed, and all output will be displayed. To see the results only, append "NOLIST" to the execute command.

#### Example without NOLIST

(user input underlined)

5//EXECUTE SHIPS AND SOME BUZZWORD

THE FOLLOWING ARE PARAMETERS TO BE SATISFIED BUZZWORD? TOTAL ENERGY SYSTEMS

5/ FIND TOTAL ENERGY SYSTEMS AND SHIPS

5/ TOTAL ENERGY SYSTEMS 6/ SHIPS 10

279

7/ TOTAL ENERGY SYSTEMS AND SHIPS

8/ /3 NOLIST

THE FOLLOWING ARE PARAMETERS TO BE SATISFIED LINE?7

U050312 LIBR: AN 02/1975 REC: 46 PROPOSAL FOR A STUDY OF TOTAL ENERGY SYSTEMS FOR NA VY SHIPS

DESCRIPTORS: WASTE HEAT BOILERS; ENGINES; DIESEL ENGINES; TOTAL ENERGY SYSTEMS; NAVAL VESSELS-ENERGY CONSERVATION HEAT RECOVERY EQUIPMENT; ENERGY SOURCES; GAS TURBINES; FUEL CONSUMPTION; RANKINE CYCLE

U058913 10/1974 REC: 2521 LIBR: AN REDUCED WEIGHT AND VOLUME ELECTRICAL SYSTEMS FOR SMALL WATERPLANE AREA TWIN-HULL(SWATH) SHIPS. DRAFT

DESCRIPTORS: SWATH SHIPS-WEIGHT REDUCTION; SHIP ELECTRIC POWER PLANTS-WEIGHT REDUCTION; SWATH SHIPS-VOLUME SIZES (DIMENSIONS); ELECTRICAL EQUIPMENT; OPTIMIZATION; ELECTRIC GENERATORS; POWER CONVERSION SYSTEMS (SHIPS); POWER DISTRIBUTION SYSTEMS (SHIPS); TOTAL ENERGY SYSTEMS; GAS TURBINES; SHIP SERVICE GENERATORS; WASTE HEAT UTILIZATION; WASTE HEAT BOILERS; CABLES; END OF PROFILE

#### Example with NOLIST

(user input underlined)

16//SHIPS AND SOME BUZZWORD NOLIST

THE FOLLOWING ARE PARAMETERS TO BE SATISFIED BUZZWORD?INTEGRATED SYSTEMS

THE FOLLOWING ARE PARAMETERS TO BE SATISFIED LINE?16

QA 913.L 911976Y LIBR: C 01/1978 REC: 4898 AXISYMMETRIC VEHICLE SYSTEM DESIGN FOR TOTAL PROPULSION POWER OPTIMIZATION. IN LOW-SPEED BOUNDARY-LAYER TRANSITION WORKSHOP: II, SANTA MONICA, CA, 1976. PROCEEDINGS

DESCRIPTORS: UNDERWATER VEHICLES-MARINE PROPULSION PLANTS
DESIGN; OPTIMIZATION; TURBULENT BOUNDARY LAYER; LAMINAR BOUNDARY

LAYER; WIND TUNNEL TESTS; INTEGRATED SYSTEMS; AXISYMMETRIC; BODIES; SHIP HULLS

## REMAINDER OF DISPLAY OMITTED

In order to execute a profile with parameters that are to be user-supplied, you may either issue the regular profile execute command and wait for the system to prompt you for required field values; or you may append a SATISFY clause to your execute command in the form:

/Profile Name SATISFY (parameter name = value)

## Example

## Sample Profile

USER FILE
"CURRENT NAVY PIC-A-TOPIC"
AUTHOR = CRAD
DATE = 790927 TIME = 140316
100 =FIND [DESCRIPTOR]
110 =PD GT [PUBLICATION DATE]
120 =CS=NAVY DEPT
130 =(1 AND 2 AND 3)
140 =DISPLAY BIB FOR ALL

(user input is underlined)

## 19//EXECUTE CURRENT NAVY PIC-A-TOPIC SATISFY (DESCRIPTOR=DRAG REDUCTION, +

#### SATISFY...PUBLICATION DATE=19750000)

- 19/ FIND DRAG REDUCTION
  - 5 19/ DRAG REDUCTION
- 20/ PD GT 19750000
  - 1247 ITEMS SAVED AS SET 20
- 21/ CS=NAVY DEPT
  - 341 ITEMS SAVED AS SET 21
- 22/ (19 AND 20 AND 21)
  - 1 ITEM SAVED AS SET 22
- 23/ DISPLAY BIB FOR ALL

ITEM 1

RECORD ID

4893

TITLE COMPARISON BETWEEN MEASURED AND COMPUTED LOCATIONS OF TRANSITION ON NINE FOREBODIES OF REVOLUTION. IN LOW-SPEED BOUNDARY-LAYER TRANSITION WORKSHOP: II, SANTA MONICA, CA, 1976. PROCEEDINGS MAJOR DESCRIPTORS BODIES OF REVOLUTION-PRESSURE DISTRIBUTION SUBJECT DESCRIPTORS:COMPARISON; AXISYMMETRIC; MODEL BASINS; BLUNT BODIES; COMPUTERIZED SIMULATION; MODEL TESTS; LAMINAR BOUNDARY LAYER; BOUNDARY LAYER SEPARATION; DRAG REDUCTION; EXPERIMENTAL DATA; PRESSURE MEASUREMENT

#### 6.3.1 RESUME Command

/EXECUTE and /Profile Name were used to execute profiles that had been created with the /SAVE command or the /MAKE command. /RESUME is used to execute a profile that had been created with the /SUSPEND command. Use the form:

/RESUME

or:

/RESUME Profile Name

If no profile name is supplied, a profile called "SUSPEND\*SAVE," if any, will be executed. The SATISFY clause may not be used with /RESUME. The following commands are eliminated from the profile before it is executed: DISPLAY, PRINT, LIST, and ROUTE.

#### 6.4 PROFILE File Manipulation

#### 6.4.1 PROFILE Listing

To see the names of the PROFILES in the PROFILE file associated with your BASIS ID, as well as those in the Data Base PROFILE file, enter:

/SHOW

Example

## 23//SHOW

USER FILE

Al CURRENT NAVY PIC-A-TOPIC

A2 ENERGY EFFICIENT SHIPS

A3 SHIPS AND SOME BUZZWORD

A4 SUSPEND\*SAVE

A5 SUSPEND\*TRAINING SESSION

A6 TRAINING SESSION

A7 WELDING RESEARCH IN THE NAVY

DATA BASE FILE

B1 ACCESSIONS BULLETIN

B2 CURRENT NAVY PIC-A-TOPIC

```
B3
      PROFXPROF
      SHIPS AND SOME BUZZWORD
B4
B5
      1 OFFLINE
B6
B7
B8
      2 OFFLINE
B9
      3 OFFLINE
B10
B11
      4 OFFLINE
B13
B14
      5 DATE
B15
      5 DATE OFFLINE
      5 OFFLINE
B16
B17
B18
      6 DATE
B19
      6 DATE OFFLINE
B20
       6 OFFLINE
```

#### DO YOU WANT TO EXECUTE ANY OF THESE PROFILES?

Your possible responses are:

- (i) NO
- (ii) YES the system will then ask you to ENTER THE TAG OF THE PROFILE TO EXECUTE

or:

(iii) enter the desired profile TAG

While /SHOW lists only the names of the available profiles, you may list the actual text of any one profile by entering:

/SHOW Profile Name

## Example

## 23//SHOW 1

```
DATA BASE FILE
"1"

AUTHOR = CRMD

DATE = 781025 TIME = 135452

100 =SORT(LINE=[LINE]) CN KEEP(SUB="SUBS")DROP NOSET

110 =REPORT EXECUTE "1"

111 =BASIS
```

The text of all profiles can be listed with the command:

/SHOW ALL

## 6.4.2 PROFILE Editing

The PROFILE/REPORT editor must be used to change any existing PROFILE in your personal profile file. The first step in editing a particular profile is to enter:

```
/EDIT Profile Name
```

```
To list the lines of a profile, enter:
```

T.

or L line #

or L line # - line #, line #

To delete lines, enter:

D

or:

D line #

OT:

D line # - line #, line #

To replace or insert a line, enter:

line # = text

To add on to an existing profile, enter:

**ADD** 

To change a line, enter:

/bad text/ = /good text/

(this will replace all occurrences of "bad text")

/bad text/ = /good text/, line #

(will replace "bad text" only in the specified

line)

To leave the editor and keep the changes made, enter:

**EXIT** 

or E

To leave the editor and discard the changes, enter:

**KILL** 

Example

L 100-500

Lists lines 100 to 500

L

Lists entrie profile

D

Deletes the last line listed

D 500

Deletes line 500

500 = FIND FG=[field group]

Makes or replaces line 500 with the text

shown

505 = DISPLAY ALL FOR ALL

Inserts a new line

/DISPLAY ALL/ = /DISPLAY BIB/, 505

Changes 505 above to read "DISPLAY BIB

FOR ALL"

## 6.4.3 Other Changes

To rename a profile, enter:

/RENAME old name TO new name

To delete an entire profile from your file, enter:

/DELETE Profile Name

## Example

RENAME CODE 2705 SDI TO CODE 2780 SDI DELETE TEST PROFILE

## 7. Self-Help and Miscellaneous Commands

#### 7.1 EXPLAIN Command

The EXPLAIN command may be used by searchers to obtain on-line orientation and assistance. A list of all topics available for explanation may be generated with:

**EXPLAIN TOPICS** 

or:

? TOPICS ("?" is a short form for EXPLAIN)

Any topic listed can be further explained by entering:

? Topic Name

Common topics are:

- ? COMMANDS
- ? FIELDS
- ? DISPLAY
- ? Command Name
- ? PARAMETERS

EXPLAIN or ? may also be used after receiving a system message or error message to solicit further explanation.

## 7.2 CLOCK

The CLOCK command allows you to find information regarding correct time, time of day, and CPU time used. This same information is provided automatically when a user logs out from the computer. The CLOCK command would be useful for obtaining statistics on resources utilized for various user's searches when conducting searches for multiple users. Example

23/CLOCK

SESSION TIME 39 MINS. 49 SECS. AT 140718 CP=26.367

#### 7.3 SET Command

With the SET command, a searcher may change values for parameters that control the mode of your terminal session. After logging out, the values of all parameters automatically revert to their default values set by the DBA.

You have already encountered the SET command in conjunction with certain parameters. These were:

SET ADJ(ACENTS) TO #	To alter adjacent term list length
SET TERMS TO #	To alter stem and browse list length
SET FIELDS ON/OFF	To turn off or on the field #s in a DISPLAY
SET HEAD(ING)S ON/OFF	To turn off or on labels in a DISPLAY
SET ITEMS ON/OFF	To turn off or on item #s in a DISPLAY
SET PAUSE ON/OFF	To stop and start DISPLAY after a certain item count
SET UNIVERSE TO LINE #	To start UNIVERSE search mode
SET HIERARCHIC ON	To start hierarchical search mode

Other parameters may be SET as well. The default sort for a document set is in ascending numerical order of record ID. To reverse this order, enter:

SET DESCEND ON

To indent the display of fields exceeding one line to a number of characters other than the default of five, enter:

**SET INDENT TO #** 

The library system "conducts" three different levels of dialog with interactive searchers according to their expertise. To change the TALK LEVEL, enter:

SET TALK = 0 for expert

SET TALK = 1 for standard (default)

SET TALK = 2 for novice

#### 7.4 LIST Command

The LIST command may be used for various purposes, some of which are the same as the EXPLAIN command. To list document sets and commands issued since the start of your terminal session, enter:

LIST line #
LIST line # — line #, line #

Other uses for LIST are:

LIST COMMANDS LIST PARAMETERS LIST STATUS LIST SEARCH

## 7.5 XEQ Command

To issue INTERCOM commands, use the XEQ Command. This command allows you to perform tasks not handled by BASIS. Use the form:

**XEO Intercom Command** 

Examples

XEQ SCREEN,80

Formats displays on an 80-character

screen

XEQ ROUTE, PRINT, DC=PR, TID=001, FID=CRSM

Routes a BASIS print file to data

system's printer

XEQ J,CRMD

Checks on the status of a batch job named CRMD

## 7.6 ABORT Command

To stop a terminal display, such as a lengthy listing or an incorrect command, enter the following after halting the display by hitting the space bar:

% ABORT

or:

% A

APPENDIX A-1. FIELDS IN LIBRARY DATA BASE

Field	Explanation	Searchable through Index	Mnemonic	Field Number	Repeating Occurrences	Characteristics
Record ID	Serially assigned number	*	Q	-		Ranged. 1-300000 for cataloging records, 400000 - 999999 for circulation records
Call Number	Location of physical item		<b>2</b> 5	8		For reports; U,C, or S number. For monographs, LC call number (put space after groups of letters and before groups of numbers, except for Vol, PRT copy).
Record entry date	Date record added to data base	*	RED	4		Ranged. YYMMDD
Cataloger's ID	ID of individual who cataloged item		CAT	മ		Number from 1 – 9
Corporate source	Corporate authors and sponsors	*	ន	7	*	Corporate source thesaurus entries only. Generic retrieval
Author main entry	First personal author		AME	œ		Last name first initial middle initial
Title	Title		F	o,	*	
Authors	Personal authors		ΑU	12	*	Same form as field 8

APPENDIX A-1. (Cont.)

Field	Explanation	Searchable through Index	Mnemonic	Field	Repeating Occurrences	Characteristics
Publication date	Publication date	*	O	13		Ranged. YYYYMMDD. Year for monographs, month and year for documents
Pagination	Number of pages, volumes, parts, etc.		ď	4		Number
Report number	Series number		SE	15	•	Standardized formats used for each series
Note	Refers to earlier or later editions, other vols., etc.		TN.	16		
Shelf list	Indicates analytics, monographs, etc.	*	SL	81		Used for Library adminis- trative purposes only
Publisher			PUB	20		
Carderock Library	Shows Carderock ownership	*	C	22		C or C/REF
Carderock copies	Copy numbers owned		ខ	23		
Annapolis Library	Shows Annapolis ownership	•	LAN	24		AN or AN/REF

APPENDIX A-1. (Cont.)

Field	Explanation	Searchable through Index	Mnemonic	Field Number	Repeating Occurrences	Characteristics
Annapolis copies	Copy numbers owned		ANC	25		
Field group	Code for broad disciplines	*	FG	<b>58</b>	•	See Appendix A-2 for possible values
Major descriptors	1-4 major subjects	*	MDE for display, DE for retrieval	59	•	Subject thesaurus entries only
Specific descriptors	0.40 specific subjects	*	DE	œ		Subject thesaures entries only
Indentifiers	Acronyms, proper names, hull nos., formulars, other subjects	*	ID for display DE for retrieval	31	•	Open-ended subjects; not thesaurus controlled
Center document type	Code for all Center employee-authored work	*	ТҮР	32	•	See Appendix A-3 for possible values
Work unit number	Funding code for Center Reports	*	WC	33	*	
Transposed report number	Digits only in Center formal reports num- bers		TRP	<b>3</b> 4		

APPENDIX A-1. (Cont.)

Field	Explanation	Searchable through Index	Mnemonic	Field Number	Repeating Occurrences	Characteristics
Circulation restriction	Omitted for unlimited distribution		CR	35	*	Values are C for no contractors; F for no foreigners or SD for special distribution
Reclassifica- tion review date	First date report requires classification change	*	AD.	36		YYYYMMDD
Security code level	For library adminis- trative purposes only		သွ	37		Provides security locks for OMITS, NATO, and other sensitive reports
Special features	Nonprint forms		R	38		Film; fiche; kit., etc.
Circulation call number	Call no. with copy number	*	CCN	46		Same as for field 2 but with copy number
CRS	Corresponding cataloging record ID	•	CRS	48		Number between 1-399999
Library	Library circulating the item	•	LIB	49		C or AN
Borrower	Borrower and code	•	88	51		Last name, first initial, middle initial, code
Due date	Left blank for indefinite loans	•	QQ	53		YYMMDD. Usually, the 15th day of 3rd month from date of check-out

APPENDIX A-1. (Cont.)

Field	Explanation	Searchable through Index	Mnemonic	Field Number	Repeating Occurrences	Characteristics
Interlibrary Ioan	For ILL transactions	*	11	55		L for items loaned to another library; B for items borrowed
Lending library			1	26		Name of library
Wait list	Reserve list		WL	28	*	Up to 3 names and codes
Classified code	Used only for inter- library Icans		づ	29		CorS
Remarks			ж Ж	09		
Lost information	LOST	*	รา	61		

## APPENDIX A-2. FIELDS AND GROUPS

0100	Aeronai	utics		06 11	Life support		
	01 01	Aerodynamics		06 12	Medical equipment and		
	01 02	Aeronautics			supplies		
		Aircraft		06 13	Microbiology		
	01 04	Aircraft flight instrumentation		06 14	Personnel selection and		
	01 05	Air facilities			maintenance (medical)		
					Pharmacology		
0200	Agricult	ture		06 16	Physiology		
		Agricultural chemistry			Protective equipment		
	02 02	Agricultural economics			Radiobiology		
		Agricultural engineering		06 19	Stress physiology		
	02 04	Agronomy and horticulture		06 20	Toxicology		
		Animal husbandry		06 21	Weapon effects		
	02 06	Forestry					
	·			0700 Chemistry			
0300	Astrono	omy and astrophysics		07 01	Chemical engineering		
		Astronomy		07 02	Inorganic chemistry		
		Astrophysics		07 03	Organic chemistry		
	03 03	Celestial mechanics		07 04	Physical and general		
					chemistry		
0400		heric sciences		07 05	Radio and radiation		
	04 01	Atmospheric physics			chemistry		
	04 02	Meteorology					
			0800	Earth s	sciences and oceanography		
0500	Bibliog	raphy, reference, and manage-		08 01	Biological oceanography		
	ment				Cartography		
	05 01	Administration and manage-		08 03	Dynamic oceanography		
		ment		08 04	Geochemistry		
		Information sciences			Geodesy		
		Economics			Geography		
	05 04	History, law, and political		08 07	Geology and mineralogy		
	_ : _ :	science		08 08	Hydrology and limnology		
		Human factors engineering		08 09	Mining engineering		
		Humanities		08 10	Physical oceanography		
		Linguistics			Seismology		
	05 08			08 12	Snow, ice and permafrost		
	05 09	Personnel selection, training,			Soil mechanics		
	06.40	and evaluation		08 14	Geomagnetism		
		Psychology	0000	171 4			
	05 11	Sociology	0900		onics and electrical engineering		
0.00	D:-1:	14 4!1!			Components		
0600		cal and medical sciences		09 02	Computers		
•		Biochemistry			Electronic and electrical		
	06 02	Bioengineering		00.04	engineering		
		Biology			Information theory		
		Bionics			Subsystems		
		Clinical medicine		טא עני	Telemetry		
		Environmental biology	1000	Ename	conversion (Nannanulaises)		
		Escape, rescue, and survival	1000		conversion (Nonpropulsive)		
		Food		10 01	Conversion techniques		
		Hygiene and sanitation			Power sources		
	06 10			10 03	Energy storage		

## APPENDIX A-2. FIELDS AND GROUPS (Continued)

1100 Materials	1320 Marine engineering and naval
11 01 Adhesives and seals	architecture
11 02 Ceramics, refractories, and	13 21 Design construction, main-
glasses	tenance, salvage opera-
11 03 Coatings, colorants, and	tion, and performance of
finishes	all types of ships, boats,
11 04 Composite materials	and marine equipment
11 05 Fibers and textiles	13 22 Structural mechanics as
11 06 Metals	applied to naval ships.
11 07 Miscellaneous materials	Stress analysis, elasticity,
11 08 Oils, lubricants, and hydraulic	shock, and vibration
fluids	13 23 Hydrodynamics
11 09 Plastics	
11 10 Rubbers	1400 Methods and equipment
11 11 Solvents, cleaners, and	14 01 Cost effectiveness
abrasives	14 02 Laboratories, test facilities,
11 12 Wood and paper products	and test equipment
11 13 Corrosion and degradation	14 03 Recording devices
_	14 04 Reliability
1200 Mathematical sciences	14 05 Reprography
12 01 Mathematics and statistics	14 06 Research
12 02 Operations research	14 07 General concepts
•	14 08
1300 Mechanical, industrial, and civil	14 09 Geometric forms
engineering	
13 01 Air conditioning, heating,	1500 Military sciences
lighting, and ventilating	15 01 Antisubmarine warfare
13 02 Civil engineering	15 02 Chemical, biological, and
13 03 Construction equipment,	radiological operations
materials, and supplies	15 03 Defense
13 04 Containers and packaging	15 04 Intelligence
13 05 Couplings, fasteners, and	15 05 Logistics
joints	15 06 Nuclear warfare
13 06 Ground transportation equip-	15 07 Operations, strategy, and
ment	tactics
13 07 Hydraulic and pneumatic	
equipment	1600 Missile technology
13 08 Industrial processes	16 01 Missile launching and ground
13 09 Machinery, tools, and indus-	support
trial equipment	16 02 Missile trajectories
13 10	16 03 Missile warheads and fuzes
13 11 Pumps, filters, pipes, tubing,	16 04 Missiles
and valves	
13 12 Safety engineering	1700 Navigation, communications, detec-
13 13 Structural engineering	tion, and countermeasures
13 14 Environmental pollution	17 01 Acoustic detection
13 15 Energy conservation	17 02 Communications
. D 10 Energy comborration	. OZ Communications

## APPENDIX A-2. FIELDS AND GROUPS (Continued)

17 03 Direction finding	2000 Physics
17 04 Electromagnetic and acoustic	20 01 Acoustics
countermeasures	20 02 Crystallography
17 05 Infrared and ultraviolet	20 03 Electricity and magnetism
detection	20 04 Fluid mechanics
17 06 Magnetic detection	20 05 Masers and lasers
17 07 Navigation and guidance	20 06 Optics
17 08 Optical detection	20 07 Particle accelerators
17 09 Radar detection	20 08 Particle physics and nuclear
17 10 Seismic detection	reactions
17 11 Miscellaneous detection	20 09 Plasma physics
17 12 COMTACT Publications	20 10 Quantum theory and relativity
1800 Nuclear science and technology	20 11 Mechanics
18 01	20 12 Solid state physics
18 02 Isotopes	20 13 Thermodynamics
18 03 Nuclear explosions	20 14 Wave propagation
18 04 Nuclear instrumentation	• • •
18 05	2100 Propulsion, engines, and fuels
18 06 Radiation shielding and pro- tection	21 01 21 02 Combustion and ignition
18 07 Radioactive wastes and fission	21 03 Electric propulsion
products	21 04 Fuels
18 08 Radioactivity	21 05 Jet and gas turbine engines
18 09 Reactor technology	21 06 Nuclear propulsion
18 10 Reactor materials	21 07 Reciprocating engines
18 11 Reactor physics	21 08 Rocket engines
18 12	21 09 Rocket propellants
18 13	21 10 Engine components
18 14	21 11 General engine concepts
	21 12 General propulsion concepts
1900 Ordnance	The second proof of the second
19 01 Ammunition, explosives, and	2200 Space technology
pyrotechnics	22 01 Astronautics
19 02 Bombs	22 02 Spacecraft
19 03 Combat vehicles	22 03 Spacecraft trajectories and
19 04 Explosions, ballistics, and armor	reentry
19 05 Fire control and bombing	22 04 Spacecraft launch vehicles
systems	and ground support
19 06 Guns	mra Stammanhhair
19 07 Rockets	2300 Planning Documents
19 08 Underwater ordnance	

9000 ABC Collection	9004 EEO Collection 4/2/79	9008
9001 Energy Collection	9005	9009
9002 Intelligence Collection	9006	9010
9003 Seaplane Collection	9007	

# APPENDIX A-3. CODES FOR CENTER DOCUMENT TYPE [Field (32)]

FR-CTR	=	Formal Center reports	Carderock and Annapolis since the merger	
DR-CTR	=	Center Departmental reports		
FR-C	=	Carderock Formal reports	Cardarack/neamarrar only	
DR-C	=	Carderock Departmental reports	Carderock/premerger only	
FR-AN	=	Annapolis Formal reports	Annapolis/premerger only	
DR-AN	=	Annapolis Departmental reports		
IR	=	Informal reports*		
PT	=	Patents, patent applications, related papers		
PA	=	Papers, articles, discussions of papers, presentations, symposia, workshops, conferences, lectures, viewgraphs, graphics		
CR	=	Contractor reports that are not a formal, departmental, or informal report		
IP	=	Informal papers		
			nemoranda, working papers, in-branch posals, specifications, drawings, etc.	
PD	=	Planning documentation, responses to AGORS, annual repts., five year plans, 1498's, etc.		
PL	=	Ships Plans		

<sup>\*</sup>Includes: test and/or evaluation reports, letter reports, memorandum reports, technical manuals, design guides, operators or users manuals, specification development reports, training manuals or guides, speed letter reports, tech notes, tech memoranda.

#### DTNSRDC ISSUES THREE TYPES OF REPORTS

- 1. DTNSRDC REPORTS, A FORMAL SERIES, CONTAIN INFORMATION OF PERMANENT TECHNICAL VALUE. THEY CARRY A CONSECUTIVE NUMERICAL IDENTIFICATION REGARDLESS OF THEIR CLASSIFICATION OR THE ORIGINATING DEPARTMENT.
- 2. DEPARTMENTAL REPORTS, A SEMIFORMAL SERIES, CONTAIN INFORMATION OF A PRELIMINARY, TEMPORARY, OR PROPRIETARY NATURE OR OF LIMITED INTEREST OR SIGNIFICANCE. THEY CARRY A DEPARTMENTAL ALPHANUMERICAL IDENTIFICATION.
- 3. TECHNICAL MEMORANDA, AN INFORMAL SERIES, CONTAIN TECHNICAL DOCUMENTATION OF LIMITED USE AND INTEREST. THEY ARE PRIMARILY WORKING PAPERS INTENDED FOR INTERNAL USE. THEY CARRY AN IDENTIFYING NUMBER WHICH INDICATES THEIR TYPE AND THE NUMERICAL CODE OF THE ORIGINATING DEPARTMENT. ANY DISTRIBUTION OUTSIDE DTNSRDC MUST BE APPROVED BY THE HEAD OF THE ORIGINATING DEPARTMENT ON A CASE-BY-CASE BASIS.